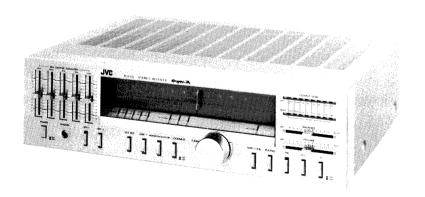
JVC



MODEL **R-S33L**

STEREO RECEIVER



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Warning:

When replacing the parts marked with \triangle , be sure to use the designated parts to ensure safety.

1. Specifications

FM Tuner Section (Figures are based upon IHF standard)

Tuning Range : 87.6 MHz - 108 MHz Usable Sensitivity (IHF) : 10.3 dBf (1.8 μ V/300 Ω)

50 dB Quieting Sensitivity

Mono : 14.8 dBf (3.0 μ V/300 Ω) Stereo : 38.3 dBf (45 μ V/300 Ω)

Distortion

Mono : 0.15 % (1 kHz) Stereo : 0.3 % (1 kHz)

Signal to Noise Ratio

Mono : 82 dB (74 dB, DIN) Stereo : 70 dB (65 dB, DIN) : 65 dB, ±400 kHz Selectivity

(35 dB, ±300 kHz, DIN)

Capture Ratio : 1.0 dB

IF Rejection : 90 dB at 98 MHz Image Rejection : 60 dB at 98 MHz Stereo Separation : 45 dB at 1 kHz

MW Section

Tuning Range : 525 kHz - 1605 kHz Usable Sensitivity : 300 μ V/m, 30 μ V (External Antenna)

Signal to Noise Ratio : 50 dB

Distortion : 0.5 % at 10 mV/m Selectivity : 40 dB, ±10 kHz

LW Section

Tuning Range : 150 kHz - 350 kHz Usable Sensitivity : $500 \,\mu\text{V/m}$, $300 \,\mu\text{V}$ (External Antenna)

Signal to Noise Ratio : 50 dB

Distortion : 0.5 % at 10 mV/m Selectivity : 40 dB, ±10 kHz 36 dB, ±9 kHz

Amplifier Section

RMS Power : 40 watts per channel at 8 ohms

(Both channels driven from 20 Hz to 20 kHz)

RMS Power : 42 watts per channel at 8 ohms

Total Harmonic Distortion: 0.007 % at rated power,

20-20 kHz, $8~\Omega$ 0.003 % at rated power,

1 kHz, 8 Ω

Signal to Noise Ratio : Phono 77 dB (75 dB, New IHF) (IHF short circuited A network) Aux/Tape 98 dB

(75 dB, New IHF)

S.E.A. Controls

Center Frequencies : 40 Hz, 250 Hz, 1 kHz, 5 kHz,

15 kHz

Control Range : ±12 dB

Input Sensitivity/

Impedance : Phono $2.5 \text{ mV}/47 \text{ k}\Omega$ 150 mV/50 k Ω

Aux Tape 150 mV/50 k Ω Tape (DIN) 150 mV/50 k Ω

Phono Overload : 140 mV at 1 kHz (THD 0.05 %)

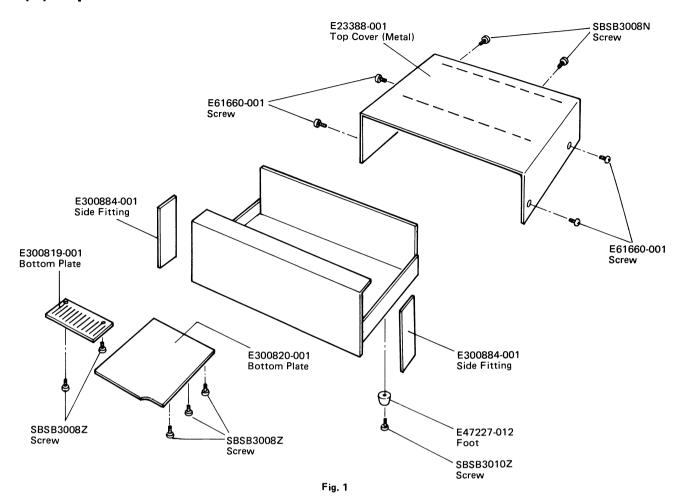
Power Consumption : See page 18

Dimensions and Weight

	Weight		
Height	Width	Depth	Net
11.9 cm	42.2 cm	34.5 cm	7.7 kg

2. Removal Procedures

2-(1) Top Cover and Bottom Plates



2-(2) Power Transistors

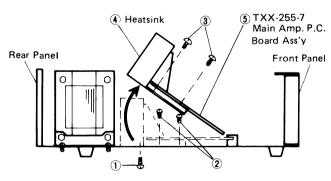


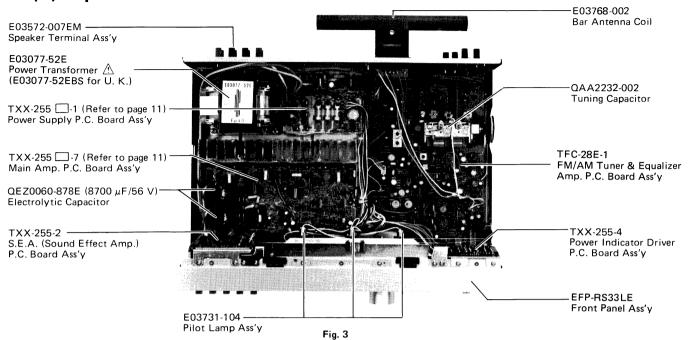
Fig. 2

Procedures:

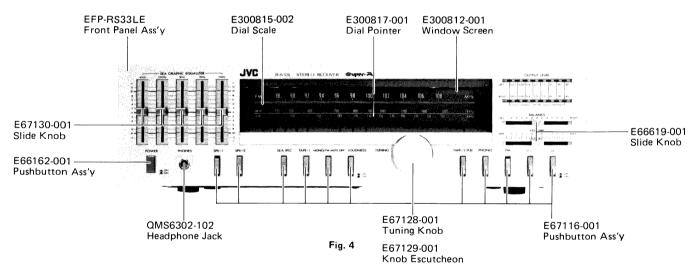
- Step 1: Remove the bottom plate from chassis and 2 screws 1 from heatsink 4.
- Step 2: Remove 4 screws 2 .
- Step 3: Raise TXX-255-7 5 from chassis as arrowed on Fig. 2 and then resolder the power transistor's leads.
- Step 4: Remove 4 screws ③ and heatsink from TXX-255-7 and then replace the power transistors.

3. Main Parts Location

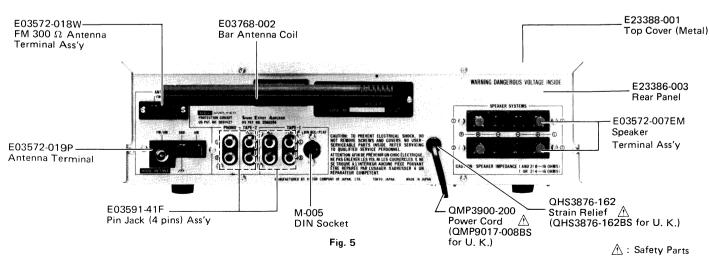
3-(1) Top View



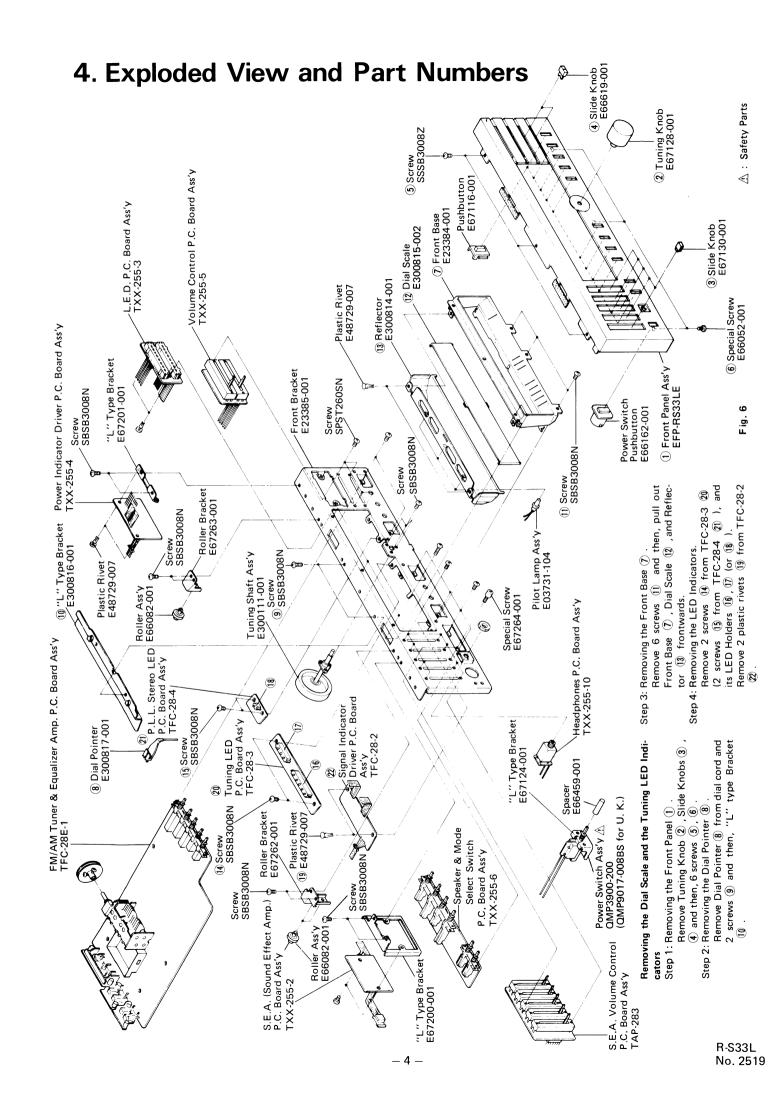
3-(2) Front View



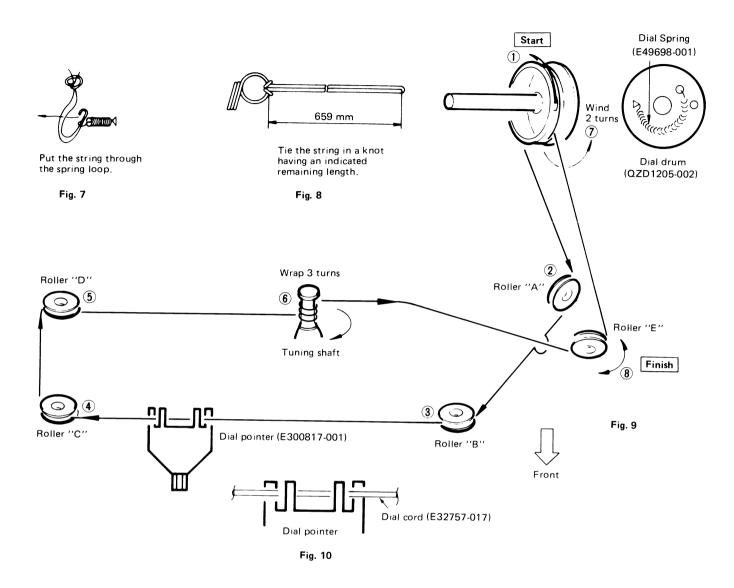
3-(3) Rear View



R-S33L No. 2519



5. Dial Stringing Procedures



- (1) Remove dial pointer and old cord.
- (2) Tie end of new dial cord to one end of dial spring, connect other end of dial spring of bottom right eye inside dial drum.
- (3) Rotate the tuning capacitor dial drum to its maximum counterclockwise.
- (4) Run the dial cord through the slot in the rim of the dial drum. See step (1).
- (5) Guide the dial cord around, over and under rollers "A", "B", "C" and "D". Keep the dial cord taut during this procedure. See step ② to ⑤.
- (6) Pull the dial cord taut and wrap 3 turns counterclockwise around tuning shaft. See step (6).

- (7) Guide the dial cord over the dial drum and wind 2 turns clockwise. See step 7.
- (8) Pull the dial cord taut and set it around roller "E". See step (8).
- (9) Turn the tuning shaft to rotate the dial drum fully counterclockwise and fully clockwise to distribute the tensioning along the dial cord.
- (10) Place the dial cord over and under the tabs on the rear of the dial pointer and place the dial pointer on the top of the dial rail. See Fig. 10.
- (11) Turn the tuning shaft clockwise. Slide the dial pointer to zero(0) calibration marker on the logging scale while holding tuning shaft fully clockwise. Cement the dial pointer to the dial cord to prevent slippage. Allow cement to dry thoroughly.

6. FM/AM Tuner Alignment Procedures

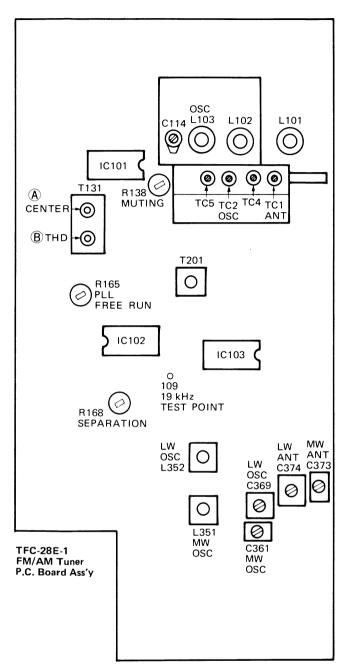


Fig. 11

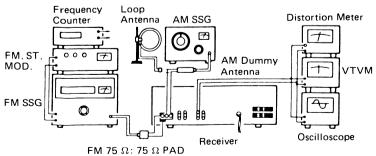


Fig. 12

6-(1) FM Section

Descriminator, Center Meter, Distortion and Signal Gain

- 1. Press to FM position.
- 2. Connect an RF generator, 1 kHz modulation and 75 kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
- 3. Connect an Oscilloscope, Distortion Meter and VTVM to the Rec. Out jacks on the rear panel.
- 4. Tune to a frequency where there is no broadcasting.
- 5. Adjust a core indicated arrow (A) of T131 so that the FM Tuning L.E.D. illuminates the center position.
- 6. Set the RF generator to 98 MHz.
- 7. Set the dial pointer to 98 MHz.
- 8. Adjust a core indicated arrow (B) of T131 so that the distortion is minimized at a value less than 0.4 %.

Tracking and Sensitivity

Precaution: No adjustment is necessary. The tracking and sensitivity have been adjusted properly and completely at the factory. If any special reason occasioned, take the following procedures carefully.

Low Frequency

- 1. Connect an RF generator the antenna terminals on the rear panel through a dummy antenna.
- 2. Set an RF generator to 88 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of 2 μ V.
- 3. Connect a VTVM and an Oscilloscope to the Rec. Out jacks on the rear panel.
- 4. Set the dial pointer to 88 MHz.
- 5. Adjust the three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequency

- 6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input
- 7. Set the dial pointer to 108 MHz.
- 8. Adjust the FM trimmers C114, TC2 and TC1 in the tuning gang to maximize the output.
- 9. Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained.

Multiplex and Stereo Separation Multiplex

- 1. Set the Stereo signal generator as follows: 400 Hz modulation frequency, 7.5 kHz deviation pilot, 67.5 kHz main and sub carriers. Connect its output to an RF generator.
- 2. Connect an RF generator to the antenna terminals through a dummy antenna.
- 3. Connect a VTVM, an Oscilloscope and a Distortion Meter to the Rec. Out jacks on the rear panel.
- 4. Set the RF generator to 98 MHz and output of 1 mV.
- 5. Set the dial pointer to 98 MHz.
- 6. Connect the Frequency Counter to 19 kHz Test Point. (TP 109).
- 7. Switch off the pilot signal of Stereo Modulator.
- 8. Adjust R165 so that the frequency counter indicates 19 kHz (0 \sim -50 Hz).

Stereo Separation

- 9. Switch the selector of Stereo Modulator to left channel modulation.
- Adjust R168 so that the output of right channel is minimized.
- Switch the selector of the modulator to right channel modulation.
- 12. Adjust R168 so that the left channel is minimized.
- 13. Set R168 to a average, if the separation of left and right is different.

Muting Level

Note: No adjustment is necessary. However, if the check-up is required, take the following steps.

- 1. Release the MONO/FM MUTE OFF pushbutton during this adjustment procedures.
- 2. Connect a VTVM and an Oscilloscope to the Rec. Out jacks on the rear panel.
- Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 8 μV.
- Turn R138 clockwise and remember the point (or position) at which the muting ceases operating.
- 5. Turn R138 counterclockwise slightly so that the output level drops by 1 dB.
- 6. Attenuate the output of the RF generator to 2 dB from $8\,\mu\text{V}$ of step 2 and check that the muting is still operating.

6-(2) MW (LW) Section

Note: () for LW Alignment Procedures

Tracking and Sensitivity

Low Frequency

- 1. Connect the RF generator to the antenna terminals on the rear panel, set this to 600 kHz (160 kHz) with 30 % modulation at 400 Hz.
- 2. Connect an AC VTVM and an oscilloscope to the Rec. out jacks on the rear panel.
- 3. Set the dial pointer to 600 kHz (160 kHz).
- Adjust OSC coil L351 (L352) and the ferrite bar antenna core to maximize the output signal. Left ferrite bar is for MW (right ferrite bar is for LW). Refer to photo below.

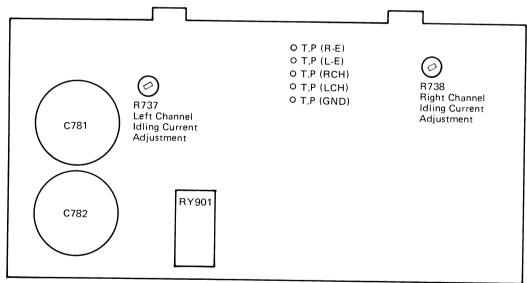
High Frequency

- 5. Set the RF generator to 1400 kHz (350 kHz) with 30% modulation at 400 Hz.
- 6. Set the dial pointer to 1400 kHz (350 kHz).
- 7. Adjust the trimmers C361 (C369) and C373 (C374) in the tuning gang so that the output signal is maximized.
- 8. Repeat these high and low frequencies adjustment procedures alternately until maximum sensitivity is obtained.



MW/LW Ferrite Bar Antenna Adjustments

7. Power Amplifier Idling Current Adjustment Procedure



Adjustment Location of TXX-255-7 Main Amp. P.C. Board Ass'y

Fig. 13

Precaution:

- (1) Allow the set to warm up at least 5 minutes before connecting a DC VTVM.
- (2) Must keep the heatsinks cooling to prevent overheating and consequent destruction of the semiconductor junction and set the volume control to minimum during these adjustment procedures.
- (): for Right channel Adjustment

Procedures:

- 1. Turn R737 and (R738) fully counterclockwise before the power switch on.
- Connect a DC VTVM to the Test Point L-CH and L-E (R-CH and R-E).
- 3. Adjust R737 (R738) for DC VTVM reading of 5 mV.

8. Printed Circuit Board Ass'y and Parts list

8-(1) TFC-28E FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y

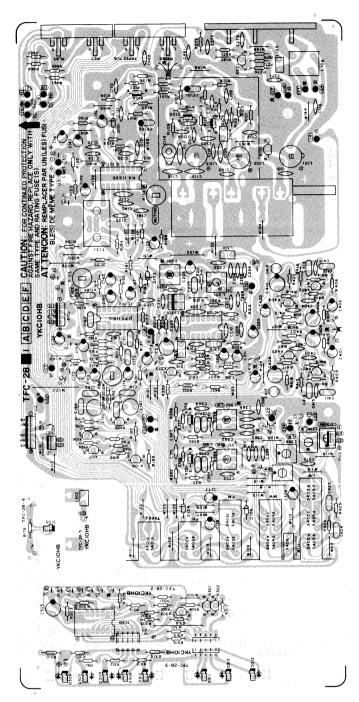


Fig. 14

Т	r	а	ı	าร	i	s	t	റ	rs	

Transistors						
Item No.	Part Number	F	Rating	Description		
		Pc	fT		Maker	
X101	2SK168(E,F)	0.2 W		FET	Hitachi	
X102	2SC535(B,C)	0.1 W	940 MHz	Silicon	"	
X103	2SC1342(B,C)	"	410 MHz	"	"	
X104	2SC535(B,C)	"	940 MHz	"	"	
X105	2SC458(C)	0.2 W	230 MHz	"	"	
X106	2SC458(C)	",	"	"	"	
X107	2SC458(C)	"	· · ·	"	"	
X108	2SA1029(C)	"	200 MHz	"	"	
X201	2SC461(C)	"	230 MHz	"	"	
X301	2SC458(C)	"	"	"	"	

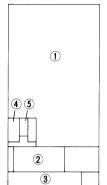


Fig. 15

Each Individual P.C. Board Location

① TFC-28E-1 : FM/AM Tuner & Equalizer

Amp. P.C. Board Ass'y

: Signal Indicator Driver P.C. ② TFC-28-2

Board Ass'y ③ TFC-28-3 : Signal L.E.D. P.C. Board

Ass'y : PLL STEREO L.E.D. P.C. 4 TFC-28-4

Board Ass'y

5 TFC-28-5 : Antenna Coil P.C. Board

Ass'y

Note:

The specific symbols (\pm , $\underline{\texttt{m}}$, $\underline{\texttt{h}}$, . . . etc.) on a surface of P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly at the factory.

Transistors

Item No.	Part Number		Rating	Description	
		Pc	fT		Maker
X302	2SC458(C)	0.2 W	200 MHz	Silicon	Hitachi
X303	2SA1029(C)	"	200 MHz	"	"
X351	2SC461(B)	"	230 MHz	"	,,
X352	2SC461(B)	"	,,	"	"
X353	2SC458(C)	"	"	"	"
X401	2SA872AV(E)	0.3 W	120 MHz	"	"
X402	2SA872AV(E)	"	"	"	"
X403	2SC1775AV(F)	0.2 W	200 MHz	"	"
X404	2SC1775AV(F)	"	"	"	"

Integrated Circuits

Item No.	Part Number	Part Number Rating		ription
		Pc		Maker
IC101	HA11225	0.59 W	IC	Hitachi
IC102	UPC1161C		"	NEC
IC103	HA1197	0.45 W	"	Hitachi
IC301	IR2434	1.0 W	"	Sharp

Diodes

Item No.	Part Number	Rating	Description	
				Maker
D101	1S2076-31		Silicon	Hitachi
D102	1S2076-31		"	"
D103	1S2076-31		"	"
D104	1S2076-31		"	"
D308	SLB-26UR		LED	Toyo Dengu
D309	SLB-26UR		"	"
D310	SLB-26UR		"	"
D312	SLB-26UR		"	"
D306	SLB-26UR		"	"
D307	SLB-26UR		"	,,
D311	SLB-26UR		"	"
D313	SLB-26GG		"	"

Coils & Transformers

Item No.	Part Number	Rating	Description
L101	E03477-031		FM ANT Coil
L102	E03477-035		FM RF Coil
L103	E03477-034		FM OSC Coil
L104	E03522-1R5KY		Choke Coil
L105	E03522-2R2KY		"
L106	E03177-005		BALUN
L191	Y00118-103		MPX 19 kHz Coil
L192	Y00118-103		"
L201	E03079-36		AM OSC Coil
L202	E03522-391KY		Choke Coil
L301	E03522-2R2KY		"
L302	E3522-2R2KY		"
L351	E03079-39		MW OSC Coil
L352	E03079-38		LW OSC Coil
T131	E03793-001		FM DET Coil
T201	E03613-017		AM IFT

Filters

Item No. Part Number	Rating	Description
CF101 E03357-009		Ceramic Filter
CF102 E03357-009		"
CF201 E03613-019		"

Capacitors

1. 1. 2								
Item No.		Ratin		Description				
C101	QCS31HJ-120Z	12 pF	50 V	Ceramic				
C102	QCF31HP-103Z	0.01 μF	"	"				
C103	QCS31HJ-150Z	15 pF	"	"				
C104	QCS21HJ-3R0	3 pF	"	"				
C105	QCS21HJ-2R0	2 pF	"	"				
C106	QCS31HJ-151Z	160 pF	"	"				
C107	QCF31HP-103Z	0.01 μF	"	"				
C108	QCF31HP-103Z	"	"	"				
C109	QCF21HP-103	''	"	"				
C110	QCT25CH-100Z	10 pF	"	"				
C111	QCT25CH-220Z	22 pF	"	"				
C112	QCT05CH-7R0	7 pF	"	"				
C113	QCT05PH-120	12 pF	"	"				
C114	QAT3001-014			Trimmer				
C115	QCT05RH-120	12 pF	50 V	Ceramic				
C116	QCS31HJ-221Z	220 pF	"	"				
C121	QCF31HP-223Z	0.022 μF	"	"				
C122	QCF31HP-223Z	" .	"	"				
C131	QCF31HP-223Z	"	"	"				
C132	QCF31HP-223Z	"	"	"				
C133	QCS31HJ-330Z	33 pF	"	"				
C134	QCF31HP-223Z	0.022 µF	"	"				
C135	QCF31HP-223Z	"	"	"				
C136	QET61AR-107Z	100 μF	10 V	Electrolytic				
C137	QCF21HP-223	0.022 μF	50 V	Ceramic				
C138	QET61CR-476Z	47 µF	16 V	Electrolytic				
C139	QET61HR-474Z	0.47 μF	50 V	"				
C140	QCF31HP-223Z	0.022 μF	"	Ceramic				
C141	QCF21HP-223	"	"	"				
C142	QET61ER-106Z	10 μF	25 V	Electrolytic				
C143	QET61HR-474Z	0.47 µF	50 V	"				
C161	QET61ER-106Z	10 μF	25 V	"				
C162	QFM31HK-473	0.047 μF	50 V	Mylar				
C163	QCS31HJ-101Z	100 pF	"	Ceramic				
C164	QFP31HJ-471	470 pF	"	Polypropyrene				
C165	QEB51EM-335	3,3 µF	25 V	Low Leak Current				
		. ,	•	Electrolytic				
C166	QEB51HM-105	1 μF	50 V	"				
C167	QEB51HM-224	0.22 μF	"	"				
C168	QET61CR-107Z	100 μF	16 V	Electrolytic				

Capacitors

Tem No. Part Number Cating Cat	Capac	11013				
C169	Item No	. Part Number	Ratio	ng	Description	
C171	C169	QET61ER-106Z	10 μF	25 V		
C171 QFM31HK-152Z 1500 pF " " C172 QFM31HK-152Z 1500 pF " " C173 QET61HR-225Z 1500 pF " " C174 QET61HR-225Z 0.022 μF " Ceramic C177 QET61HR-474Z 0.47 μF " Electrolytic C178 QET61HR-474Z " " " C191 QFM31HK-682Z 6800 pF " Mylar C192 QFM31HK-182Z 1800 pF " " C193 QFM31HK-182Z 1500 pF " " C194 QFM31HK-182Z 15 pF " " C194 QCF31HP-233Z 0.022 μF " " C204 QC531Hy-333QZ 33 pF " " C205 QCF31HP-223Z 0.01 μF " " C206 QCF31HP-223Z 0.022 μF " " C210 QCF31HP-223Z 0.022 μF " "				"	"	
C172	1		1	4	Mylar	
C172 QFM31HK-152Z 1500 pF " Electrolytic C173 QET61HR-255 " " Electrolytic C175 QCF31HP-223Z 0.022 μF " Ceramic C177 QET61HR 474Z " " " C178 QET61HR 474Z " " " C191 QFM31HK-682Z 6800 pF " Mylar C191 QFM31HK-182Z 1800 pF " " C193 QFM31HK-182Z " " " C194 QFM31HK-182Z " " " C203 QC75UJ-150Z Oo22 μF " Ceramic C204 QCS31HJ-330Z 0.01 μF " " C205 QFM31HK-103Z 0.02 μF " Mylar C206 QCF31HP-223Z 0.022 μF " " C207 QCF31HP-223Z 0.022 μF " " C210 QET61ER-106Z 10 μF 50 V Mylar	1					
C173						
C174 QET51HR-225 C175 QCF31HP-223Z C179 QF31HR-882Z G800 pF Gelectrolytic C192 QFM31HK-682Z G800 pF Gelectrolytic G800 pF						
C175 QCF31HP-223Z QET61HR 474Z C191 0.027 μF QFM31HK-682Z C192 " " " " " " " " " " " " " " " " " " "	1	i			Electrolytic	
C177 QET61HR474Z 0.47 μF " Electrolytic C178 QET61HR474Z " " " C191 QFM31HK-682Z 6800 pF " Mylar C192 QFM31HK-182Z 1800 pF " " C194 QFM31HK-182Z 1800 pF " " C194 QFM31HK-182Z 1800 pF " " C194 QFM31HK-182Z 1800 pF " " C201 QCF31HP-223Z 10.02 μF " Ceramic C204 QCS31HJ-330Z 33 pF " " C205 QFM31HK-103Z 0.01 μF " Wylar C206 QEF31HP-223Z " " " C207 QCF31HP-223Z " " " C208 QCF31HP-223Z " " " C210 QCF31HP-223Z 10.0p F 50 V Mylar C212 QCT3HR-105Z 10.p F 50 V Mylar C2	1		0.022 "	1	Caramic	
C178 QET61HR-474Z 6800 pF " Mylar C191 QFM31HK-682Z 6800 pF " Mylar C192 QFM31HK-182Z " " " " C193 QFM31HK-182Z " " " " C194 QFM31HK-182Z " " " " C201 QCF31HP-223Z " " " " C204 QCS31HJ-330Z 25 V C205 QFM31HK-103Z 20.01 μF " Mylar C206 QET61ER-106Z 10 μF " Mylar C207 QCF31HP-223Z " " " " " C208 QCF21HP-223Z " " " " " C209 QCF31HP-223Z " " " " " C210 QCF31HP-223Z " " " " " C211 QET61ER-106Z 10 μF " " " " C212 QET61HR-105Z 10 μF " " " " C213 QCF31HP-223Z 0.022 μF " " " C214 QCF31HP-33Z 30 pF " " " C215 QCS31HP-403Z 0.022 μF " " " C216 QCF31HP-23Z 0.022 μF <td< td=""><td>1</td><td></td><td></td><td></td><td></td></td<>	1					
C192 QFM31HK-682Z "	C178	QET61HR-474Z		,,		
C192 QFM31HK-182Z "	C191	QFM31HK-682Z	6800 pF	"	Mylar	
C194 QFM31HK-182Z " " " Ceramic C201 QCF31HP-233Z 0.022 μF " Ceramic C204 QCS31HJ-30Z 15 pF " " C205 QFM31HK-103Z 0.01 μF " Mylar C206 QET61ER-106Z 10 μF 25 V Electrolytic C207 QCF31HP-223Z " " " C208 QCF21HP-223 " " " C210 QCF31HP-223Z " " " C211 QET61ER-106Z 10 μF " " C211 QET61ER-106Z 10 μF " " C212 QET61ER-106Z 10 μF " " C213 QCF31HP-233Z 0.022 μF " " C214 QCF31HP-233Z 0.022 μF " " C215 QCS31HJ-303Z 0.022 μF " " C216 QCF31HP-23Z 0.022 μF " "	1			"	"	
C201 QCF31HP-223Z 0.022 μF " Ceramic C203 QCT25UJ-150Z 15 pF " " C204 QCS31HJ-330Z 33 pF " " C206 QET61ER-106Z 10 μF 25 V Electrolytic C207 QCF31HP-223Z " " " C209 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61HR-105Z 1 μF " " C211 QET61HR-105Z 1 μF " " C212 QET61HR-105Z 10 μF 50 V Mylar C213 QFM31HR-103Z 10 μF " " C214 QCF31HP-233Z 0.022 μF " " " C217 QCF31HP-23Z 0.022 μF " " " " C217 QCF31HP-23Z 0.022 μF " " <td>1</td> <td>1</td> <td></td> <td>1</td> <td></td>	1	1		1		
C203 QCT25UJ-150Z 15 pF "			+ "	-	''	
C204 QCS31HJ-330Z 33 pF " Mylar C205 QFM31HK-103Z 0.01 μF " Mylar C206 QET61ER-106Z 10 μF 25 V Electrolytic C207 QCF31HP-223Z " " " " " " " C209 QCF31HP-223Z " " " " " " C210 QCF31HP-223Z " " " " " " C211 QET61ER-106Z 10 μF 25 V " " C211 QET61HR-105Z 10 μF 50 V Wylar C211 QET61HR-106Z 10 μF 50 V Mylar C214 QCF31HP-223Z 1002 μF 50 V Mylar C214 QCF31HP-233Z 0.022 μF " " " C215 QCS31HJ-3331Z 330 pF " " " C216 QCF31HP-233Z 0.022 μF " " " C217 QCF31HP-233Z 0.022 μF " " " C220 QET61ER-106Z 10 μF 50 V Ceramic C221 QCS31HJ-330Z	1					
C205 QFM31HK-103Z O.01 μF O.022 μF SO V O.023 μF SO V O.033 μF SO V O.035		I .		İ		
C206 QET61ER-106Z 10 μF 25 V Electrolytic C207 QCF31HP-223Z 0.022 μF 50 V Ceramic C208 QCF21HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61HR-105Z 1 μF " Electrolytic C212 QET61ER-106Z 10 μF 25 V " C213 QFM31HK-102Z 1000 pF 50 V Mylar C214 QCF31HP-223Z 0.022 μF " " C215 QCS31HJ-3331Z 330 pF " " C216 QCS31HJ-3331Z 330 pF " " C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR-106Z 47 μF 16 V Electrolytic C221 QCS31HJ-560Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C224 QCT36HP-473Z " " "					1	
C207 QCF31HP-223Z 0.022 μF 50 V Ceramic C208 QCF21HP-223Z " " " C209 QCF31HP-223Z " " " C210 QCF31HP-223Z " " " C211 QET61ER-106Z 10 μF 25 V Mylar C212 QET61ER-106Z 100 μF 25 V Mylar C213 QEM31HK-102Z 1000 pF 50 V Mylar C214 QCF31HP-23Z 0.022 μF " " C215 QCS31HJ-331Z 330 pF " " C216 QCF31HP-223Z 0.022 μF " " C217 QCF31HP-223Z 0.022 μF " " C221 QCS31HJ-560Z 56 pF 50 V Ceramic C2221 QCS31HJ-30Z 33 pF " " C2226 QCS31HJ-30Z 33 pF " " C2226 QCS31HJ-30Z 0.047 μF " " <					1 '	
C208 QCF21HP-223 " " " " " " " " " " " " " " " " " " "						
C210 QCF31HP-223Z " " " Electrolytic C211 QET61HR-105Z 1 μF " Electrolytic C212 QCF31HP-223Z 0.022 μF " " " " " " " " " " " " " " " " " "	1		","	1		
C211	C209	QCF31HP-223Z	"	"	"	
C212		QCF31HP-223Z	"	''	"	
C213 QFM31HK-102Z 1000 pF 50 V Mylar C214 QCF31HP-232Z 0.022 μF " " C216 QCF31HP-103Z 0.1 μF " " C216 QCF31HP-103Z 0.1 μF " " C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 47 μF 16 V Ceramic C221 QCS31HJ-4560Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C224 QCT26CH-151 47 pF " " C226 QCS31HJ-470Z 47 pF " " C271 QCF31HP-473Z 0.047 μF " " C271 QCF31HP-473Z 0.022 μF " " C303 QET61CR-107Z 100 μF 16 V " C352 QCF31HP-473Z 0.022 μF " " <t< td=""><td>C211</td><td>QET61HR-105Z</td><td>1 μF</td><td>"</td><td>Electrolytic</td></t<>	C211	QET61HR-105Z	1 μF	"	Electrolytic	
C214 QCF31HP-223Z 0.022 μF "			10 μF	25 V	"	
C215 QCS31HJ-331Z 330 pF " " C216 QCF31HP-103Z 0.1 μF " " C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR 476Z 47 μF 16 V Electrolytic C220 QCT61ER-106Z 10 μF 25 V " C221 QCS31HJ-660Z 56 pF 50 V Ceramic C223 QCT26CH-151 " " " C224 QCT36HP-473Z 33 pF " " C225 QCS31HJ-470Z 47 pF " " C271 QCF31HP-473Z 33 pF " " C272 QCF31HP-473Z 0.047 μF " " C303 QET61CR-107Z 100 μF 16 V Electrolytic C330 QET61RP-473Z 100 μF 16 V " C351 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " "			1 .	1		
C216 QCF31HP-103Z 0.1 μF " " C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 56 pF 50 V Ceramic C221 QCS31HJ-560Z 56 pF 50 V Ceramic C223 QCT26CH-151 " " " C224 QCS31HJ-470Z 47 pF " " C226 QCS31HJ-470Z 47 pF " " C271 QCF31HP-473Z " " " C272 QCF31HP-473Z " " " C303 QET61CR-107Z 100 μF 16 V " C304 QET61CR-107Z 100 μF 16 V " C351 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " C353 Q			1	1		
C217 QCF31HP-223Z 0.022 μF " " C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 10 μF 25 V " C221 QCS31HJ-560Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C224 QCT36THP-473Z 47 pF " " C226 QCS31HJ-330Z 33 pF " " C271 QCF31HP-473Z " " " C272 QCF31HP-473Z " " " C303 QET61CR-107Z 100 μF 16 V " C304 QET61CR-107Z 100 μF 16 V " C351 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " C355 QCF31HP-473Z " " " C356 QFM31HK-103Z 0.01 μF " " C357 QCT25		I .				
C218 QET61CR-476Z 47 μF 16 V Electrolytic C220 QET61ER-106Z 10 μF 25 V " C221 QCS31HJ-560Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C225 QCS31HJ-470Z 47 pF " " C226 QCS31HJ-330Z 33 pF " " C271 QCF31HP-473Z " " " C272 QCF31HP-473Z " " " C303 QET61CR-107Z 100 μF 16 V " C303 QET61CR-107Z 100 μF 16 V " C351 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " C355 QCF31HP-473Z " " " C356 QFM31HK-103Z 0.01 μF " Mylar C357 QCT25PH-1						
C220 QET61ER-106Z 10 μF 25 V " C221 QCS31HJ-560Z 56 pF 50 V Ceramic C224 QCT26CH-151 " " " C225 QCS31HJ-470Z 47 pF " " C226 QCS31HJ-330Z 33 pF " " C271 QCF31HP-473Z " " " C272 QCF31HP-473Z " " " C303 QET61CR-107Z 100 μF 16 V " C304 QET61CR-107Z 100 μF 16 V " C351 QCF31HP-473Z " " " C352 QCF31HP-473Z " " " C353 QCS31HJ-100Z 10 pF " " C355 QFM31HK-103Z 0.01 μF " " C355 QFM31HS-330Z 33 pF " " C359 QCS31HJ-330Z 33 pF " " C359 QCS31HJ-360Z						
C221		1		1	Electrolytic	
C223 QCT26CH-151 150 pF " " " C224 QCT26CH-151 " " " " C225 QCS31HJ-470Z 47 pF " " " C226 QCS31HJ-330Z 33 pF " " " C271 QCF31HP-473Z 0.047 μF " " C272 QCF31HP-473Z " " " C273 QCF31HP-223Z 0.022 μF " " C303 QET61CR-107Z 100 μF 16 V " C304 QET61CR-107Z 100 μF 16 V " Ceramic C351 QCF31HP-473Z 0.047 μF 50 V Ceramic C352 QCF31HP-473Z " " " " " C353 QET61CR-107Z 100 μF 16 V " Ceramic C352 QCF31HP-473Z 0.047 μF 50 V Ceramic C352 QCF31HP-473Z 0.01 μF " " Mylar C353 QCS31HJ-100Z 10 pF " " " " " " " " " " " " " " " " " "		l .		f .	Caramia	
C224 QCT26CH-151 " " " " " " " " " " " " " " " " " " "				1	",	
C225	C224			"	"	
C271	C225	QCS31HJ-470Z	47 pF	"	"	
C272		QCS31HJ-330Z	33 pF	"	"	
C273			0.047 μF		"	
C303			"	"	"	
C303			,		"	
C304				ı		
C351 QCF31HP-473Z						
C352					Ceramic	
C353						
C355 QFM31HK-103Z Q.01 μF " Mylar " "			10 pF	,,	,,	
C356 QFM31HK-153Z 0.015 μF " Ceramic C357 QCT25PH-151Z 150 pF " Ceramic C358 QCT25PH-151Z " " " C359 QCS31HJ-330Z 33 pF " " C360 QCT25UJ-100Z 10 pF " " C361 QAT20001-001 C362 QCF31HP-473Z " " " " C363 QCF31HP-473Z " " " " C364 QCS31HJ-560Z 56 pF " " " C365 QCT25UJ-270Z 27 pF " " " C366 QCT25CH-680Z 68 pF " " " C367 QCT25CH-680Z " " " " C368 QCT25CH-680Z " " " " C369 QAT2001-005 C370 QFM31HK-233Z 0.033 μF " " C371 QFM31HK-333Z 0.033 μF " " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " " Electrolytic	C355			"	Mylar	
C358			0.015 μF	"	<i>"</i>	
C359		QCT25PH-151Z	<u>-</u>	"	Ceramic	
C360 QCT25UJ-100Z C361 QAT20001-001 C362 QCF31HP-473Z O.047 μF 50 V Ceramic C363 QCF31HP-473Z O.047 μF 50 V Ceramic C364 QCS31HJ-560Z 56 pF " " " C365 QCT25UJ-270Z 27 pF " " C366 QCT25CH-680Z 68 pF " " " C367 QCT25CH-680Z " " " " " C368 QCT25CH-680Z " " " " " " C369 QAT2001-005 C370 QFM31HK-223Z O.022 μF 50 V Mylar C371 QFM31HK-333Z QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-001 C375 QAT2001-001 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " " Electrolytic C361 QCS31HR-475Z 4.7 μF " " " Electrolytic C401 QET61HR-475Z 4.7 μF " " " " " " " " " " " " " " " " " "						
C361 QAT20001-001 C362 QCF31HP-473Z 0.047 μF 50 V Ceramic C363 QCF31HP-473Z " " " " " Ceramic C364 QCS31HJ-560Z 56 pF " " " C365 QCT25UJ-270Z 27 pF " " " C366 QCT25CH-680Z " " " " " " " C368 QCT25CH-680Z " " " " " " " " C369 QAT2001-005 C370 QFM31HK-232Z QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR-474Z 0.47 μF 50 V Electrolytic C401 QET61HR-475Z 4.7 μF " " Electrolytic C401			•			
C362 QCF31HP-473Z 0.047 μF 50 V Ceramic C363 QCF31HP-473Z " " " C364 QCS31HJ-560Z 56 pF " " C365 QCT25UJ-270Z 27 pF " " C366 QCT25CH-680Z 68 pF " " C367 QCT25CH-680Z " " " C368 QCT25CH-220Z 22 pF " " C370 QFM31HK-233Z C371 QFM31HK-333Z 0.033 μF " " C371 QFM31HK-333Z 18 pF " Ceramic C373 QAT2001-005 18 pF " Ceramic C373 QAT2001-005 17 rimmer C375 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR 475Z 4.7 μF " " Electrolytic			ı∪ p⊦			
C363			0.047=	50 V	1	
C364 QCS31HJ-560Z 56 pF " " " C365 QCT25UJ-270Z 27 pF " " C366 QCT25CH-680Z 68 pF " " " C367 QCT25CH-680Z " " " " C368 QCT25CH-220Z 22 pF " " C370 QFM31HK-233Z 0.022 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR 475Z 4.7 μF " " Electrolytic			ν,			
C365 QCT25UJ-270Z 27 pF " " " " " " " " " " " " " " " " " "			56 pF			
C366 QCT25CH-680Z G8 pF " " " C367 QCT25CH-680Z " " " " C368 QCT25CH-220Z 22 pF " Trimmer C370 QFM31HK-223Z 0.032 μF 50 V Mylar C371 QFM31HK-333Z 0.033 μF " " Ceramic C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR 475Z 4.7 μF " "				"	"	
C368				"	"	
C369	C367	QCT25CH-680Z	"	"	"	
C370 QFM31HK-223Z 0.022 μF 50 V Mylar 7		QCT25CH-220Z	22 pF	"	"	
C371 QFM31HK-333Z $0.033 \mu F$ " Ceramic C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 QAT2001-001 QET61HR-474Z $0.47 \mu F$ 50 V Electrolytic C401 QET61HR-475Z $4.7 \mu F$ " "					Trimmer	
C372 QCS31HJ-180Z 18 pF " Ceramic C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR 475Z 4.7 μF " "	1				•	
C373 QAT2001-005 C374 QAT2001-001 C375 QET61HR 474Z 0.47 μF 50 V Electrolytic C401 QET61HR 475Z 4.7 μF " "					· ·	
C374 QAT2001-001 " C375 QET61HR 474Z 0.47 μF 50 V Electrolytic " C401 QET61HR 475Z 4.7 μF "			18 pF	,,		
C375 QET61HR 474Z 0.47 μF 50 V Electrolytic "					Trimmer	
C401 QET61HR-475Z 4.7 µF " "			0.47	EO 1/	"	
				ου V	Electrolytic "	
		Į.		,,	,,	

Capacitors

Item No.	Part Number	Rating		Description
C403	QCS31HJ-471Z	470 pF	50 V	Ceramic
C404	QCS31HJ-471Z	"	"	"
C405	QET60JR-227Z	220 μF	6.3 V	Electrolytic
C406	QET60JR-227Z	"	"	"
C407	QCS31HJ-470Z	47 pF	50 V	Ceramic
C408	QCS31HJ-470Z	"	"	"
C409	QET60JR-227Z	220 μF	6.3 V	Electrolytic
C410	QET60JR-227Z	"	"	"
C411	QFM31HK-153Z	0.015 μF		Mylar
C412	QFM31HK-153Z	"	"	"
C413	QFM31HK-472Z	4700 pF	"	"
C414	QFM31HK-472Z	"	"	"
C415	QCS31HJ-471Z	470 pF	"	Ceramic
C416	QCS31HJ-471Z	"	"	"
C417	QEZ0046-105	1 μF	"	Electrolytic
C418	QEZ0046-105	"	"	"
C419	QET61ER-476Z	47 μF	25 V	"
C420	QET61ER-476Z	"	''	"
C423	QFM31HK-153Z	0.015 μF	ı	Mylar
C424	QFM31HK-153Z	"	"	"
C461	QCF31HP-223Z	0.022 μF	"	Ceramic
C462	QCF31HP-473Z	0.047 μF	"	"

Resistors

nesisto	Resistors				
Item No.	Part Number	Rat	ting	Description	
R101	QRD141J-391SY	390Ω	1/4 W	Carbon	
R102	QRD141J-472SY	4.7 kΩ	"	"	
R103	QRD141J-223SY	22 kΩ	"	"	
R104	QRD141J-102SY	1 kΩ	"	"	
R105	QRD141J-101SY	100 Ω	"	"	
R106	QRD141J-561SY	560Ω	"	"	
R107	QRD141J-222SY	$2.2 k\Omega$	"	, ,,	
R108	QRD141J-103SY	10 kΩ	"	,,	
R109	QRD141J-682SY	$6.8 k\Omega$	"	"	
R110	QRD141J-272SY	2.7 kΩ	"	"	
R113	QRD149J-220S	22 Ω	"	"	\triangle
R121	QRD141J-221SY	220 Ω	"	"	
R122	QRD141J-273SY	27 kΩ	"	"	
R123	QRD141J-103SY	10 kΩ	"	′′	
R124	QRD141J-471SY	470 Ω	"	"	
R125	QRD141J-101SY	100 Ω	"	"	
R126	QRD141J-331SY	330 Ω	"	"	
R131	QRD141J-391SY	390 Ω	"	"	
R132	QRD141J-271SY	270 Ω	",	"	
R133	QRD141J-123SY	12 kΩ	"	,,	
R134	QRD141J-332SY	$3.3 \mathrm{k}\Omega$	"	"	
R135	QRD149J-470S	47 Ω	"	"	Δ
R136	QRD141J-472SY	4.7 kΩ	"	"	
R137	QRD141J-823SY	82 kΩ	"	"	
R138	QVP4A0B-223	22 kΩ		Variable	
R139	QRD141J-4,73SY	47 kΩ	1/4 W	Carbon	
R140	QRD141J-123SY	12 kΩ	"	"	
R141	QRD141J-103SY	10 kΩ	"	"	
R161	QRD141J-363SY	36 kΩ	"	"	
R162	QRD141J-393S	39 kΩ	"	"	
R163	QRD141J-683SY	68 kΩ	"	"	
R164	QRD141J-163SY	16 kΩ	"		
R165	QVP4A0B-472	4.7 kΩ		Variable	
R166	QRD141J-102SY	1 kΩ	1/4 W	Carbon	Δ
R167	QRD149J-330S	33 Ω			Δ
R168	QVP4A0B-474	470 kΩ		Variable	
R169	QRD141J-223SY	22 kΩ	1/4 W	Carbon	
R170	QRD141J-223SY		",	",	
R171	QRD141J-513SY	51 kΩ	"	<i>",</i>	
R172	QRD141J-513SY		,,	,,	
R173	QRD141J-103SY	10 kΩ	\ <i>''</i>	ļ <i>"</i> ,	
R174	QRD141J-103SY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	",	,,	
R175	QRD141J-332SY		,,	,,	
R176	QRD141J-332SY	1	,,	,,	
R177	QRD141J-102SY	1 kΩ	L	L	

Resistors

Resisto	113			
Item No.	Part Number	Ra	ting	Description
R178	QRD141J-222SY	2.2 kΩ	1/4 W	Carbon
R179	QRD141J-104SY	$100\mathrm{k}\Omega$	"	"
R191	QRD141J-332SY	$3.3 k\Omega$	"	"
R192	QRD141J-332SY	"	"	"
R193	QRD141J-104SY	100 kΩ	"	"
R194	QRD141J-393SY	39 kΩ	''	"
R195	QRD141J-103SY	10 kΩ	''	"
R196	QRD141J-223SY	22 kΩ	′′	"
R197	QRD141J-223SY	"	"	"
R198	QRD141J-223SY		"	"
R201	QRD141J-152SY	1.5 kΩ	",	"
R202	QRD141J-103SY	10 kΩ	\ ·",	,,
R203	QRD141J-103SY		,,	,,
R204	QRD141J-331SY	330 Ω	,,	,,
R205	QRD141J-562SY	5.6 kΩ	-,,	''
R206	QRD141J-222SY	2,2 kΩ	,,	
R207	QRD141J-104SY	100 kΩ	,,	"
R208	QRD141J-151SY QRD141J-151SY	150 Ω	,,	,,
R209 R210	QRD141J-221SY	220 Ω	,,	"
	ORD141J-561SY	560 Ω	,,	,,
R211	QRD141J-561SY	150 Ω	,,	,,
R212 R271	QRD141J-104SY	100 kΩ	,,	,,
R271	QRD141J-104S1	2.2 kΩ	,,	,,
R272	QRD141J-331SY	330 Ω	,,	,,
			,,	''
R274	QRD141J-182SY QRD141J-153SY	1.8 kΩ	,,	,,
R275 R301	QRD141J-683SY	15 kΩ 68 kΩ	,,	,,
R302	QRD141J-563SY	56 kΩ	,,	,,
R303	QRD141J-154SY	150 kΩ	,,	,,
	-		.,	,,
R304	QRD141J-103SY	10 kΩ	,,	,,
R305	QRD141J-333SY QRD141J-102SY	33 kΩ 1 kΩ	,,	,,
R306 R307	QRD141J-303SY	30 kΩ	,,	,,
R310	QRD141J-102SY	1 kΩ	,,	,,
		"	,,	,,
R311	QRD141J-102SY	,,	,,	,,
R312 R313	QRD141J-102SY QRD141J-102SY	,,	"	,,
R314	QRD141J-102SY	.,	,,	,,
R315	QRD141J-102SY	,,	,,	,,
	QRD141J-102SY	,,	-,,	.,
R316 R317	QRD141J-681SY	680 Ω	,,	,,
R317	QRD141J-682SY	6.8 kΩ	,,	,,
R319	QRD141J-751SY	750 Ω	,,	"
R320	QRD141J-222SY	2,2 kΩ	,,	"
	QRD141J-393SY	39 kΩ	,,	,,
R351 R352	QRD141J-822SY	8.2 kΩ	"	"
R353	QRD141J-152SY	1.5 kΩ	,,	"
R354	QRD141J-821SY	820 Ω	"	"
R355	QRD141J-393SY	39 kΩ	"	"
R356	QRD141J-682SY	6.8 kΩ	"	"
R357	QRD141J-182SY	1.8 kΩ	"	"
R358	QRD141J-821SY	820 Ω	"	"
R359	QRD141J-223SY	22 kΩ	"	"
R403	QRD141J-563SY	56 kΩ	"	"
R404	QRD141J-563SY	"	",	"
R405	QRD141J-222SY	2.2 kΩ	"	"
R406	QRD141J-222SY	","	"	"
R407	QRD141J-224SY	220 kΩ	"	"
R408	QRD141J-224SY	"	"	"
R409	QRD141J-301SY	300 Ω	"	"
R410	QRD141J-301SY	"	"	,,
R411	QRD141J-473SY	47 kΩ	"	"
R412	QRD141J-473SY	"	"	"
R413	QRD141J-224SY	220 kΩ	"	"
R414	QRD141J-224SY	"	"	"
R415	QRD141J-153SY	15 kΩ	"	"
R416	QRD141J-153SY	"	"	"
R417	QRD141J-682SY	6.8 kΩ	"	"
R418	QRD141J-682SY	"	"	"
	-	•	•	

 $\underline{ \, \, \mathbb{ \Lambda}} : \mathsf{Safety} \; \mathsf{Parts}$

Resistors

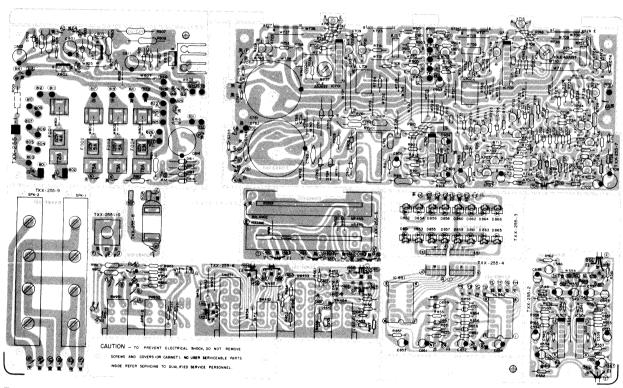
Item No.	Part Number	Rat	ing	Description	
R419	QRD141J-102SY	1 kΩ	1/4 W	Carbon	
R420	QRD141J-102SY	"	"	"	
R421	QRD149J-560S	56 Ω	"	,,	\triangle
R422	QRD149J-560S	"	"	,,	$\overline{\mathbb{A}}$
R423	QRD141J-564SY	$560\mathrm{k}\Omega$	"	"	
R424	QRD141J-564SY	"	"	"	
R461	QRD141J-334SY	330 kΩ	"	"	
R462	QRD141J-334SY	"	"	"	
R463	QRD141J-104SY	100 kΩ	"	"	
R464	QRD141J-104SY	"	"	"	

⚠: Safety Parts

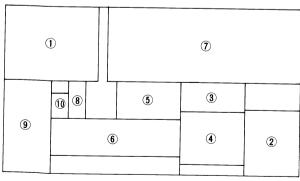
Others

Item No.	Part Number	Rating	Description
P104	QMV5005-002		2 Pins Plug
S401	QSP0259-107		Select Switch
PHAUX	E03591-41F		Pin Jack
	EWR25J-06DD	-	Flat Cable
	E03572-019P		Antenna Terminal
1	E300098-001		Shield Case
1 1	E43727-001		Tab
1	E67125-001		LED Holder (Signal)
	E67126-001		LED Holder (Tuned)
	E67127-001		LED Holder (Stereo)
	QAA2232-002		Tuning Capacitor
	QMV5005-002		2 Pins Plug
	QMV5005-004		4 Pins Plug
	QMV5005-006		6 Pins Plug

8-(2) TXX-255 Main Amp., Power Supply and Other Functions Split P.C. Board Ass'v



Each Individual P.C. Board Location



The specific symbols ($\bar{\pi}$, \mathbb{R} , $\bar{\theta}$, \ldots , etc.) on a surface of P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly at the factory.

①TXX-255 🗀 -1 : Power Supply P.C. Board Ass'y

2TXX-255-2 : S.E.A. (Sound Effect Amplifier) P.C. Board

Fig. 16

Ass'y

3TXX-255-3 : L.E.D. P.C. Board Ass'y

4 TXX-255-4 : Power Indicater Driver P.C. Board Ass'y

: Volume Control P.C. Board Ass'y **⑤** TXX-255-5

⑥TXX-255-6 : Mode and Speaker Select Switch P.C. Board Ass'y

⑦ TXX-255 □-7 : Main Amp. P.C. Board Ass'y ® TXX-255 □-8: AC Socket P.C. Board Ass'y

9 TXX-255-9 : Speaker Terminals P.C. Board Ass'y ① TXX-255-10 : Headphones Jack P.C. Board Ass'y

In ____ should be indicated an area code according to the table shown below when placing an order.

Designated Areas	P.C. Board Ass'y
U. K.	TXX-255 EBS
Europe	TXX-255 E

Transistors

Item No.	Part Number		Rating	Descrip	tion
		Pc	fT		Maker
X701	2SC1775AV(F1)	0.2 W	200 MHz	Silicon	Hitachi
X702	2SC1775AV(F1)	· · ·	,,	",	,,
X703	2SC1775AV(F1)	,,	,,	",	,,
X704	2SC1775AV(F1)			",	,,
X705	2SC2546(E)	0.4 W	90 MHz		
X706	2SC2546(E)	"	"	''	"
X707	2SA949(O,Y)	3 W	120 MHz	<i>"</i>	Toshiba
X708	2SA949(O,Y)	"	′′	"	′′
X709	2SA949(O,Y)	"	"	"	"
X710	2SA949(O,Y)	"	"	"	"
X711	2SA1029(C)	0.2 W	200 MHz	"	Hitachi
X712	2SA1029(C)	"	"	"	"
X713	2SC2229(O.Y)	0.8 W	120 MHz	"	Toshiba
X714	2SC2229(O,Y)	"	"	"	''
X715	2SC2546(E)	0.4 W	90 MHz	"	Hitachi
X716	2SC2546(E)	,,	"	"	"
X717	2SC1775AV(F)	0.2 W	200 MHz	"	"
X718	2SC1775AV(F)	,,	",	"	,,
X719	2SA872AV(E)	0.3 W	120 MHz	"	"
X720	2SA872AV(E)	",	,,	"	"
X721	2SC2235(O,Y)	0.9 W	"	"	Toshiba
X722	2SC2235(O,Y)	0.0	"	"	,,,
X723	2SA965(O,Y)	,,	"	"	,,,
X724	2SA965(O,Y)	"	"	"	"
X725	2SD845LB(R,O)	120 W	20 MHz	"	"
X726	2SD845LB(R.O)	"	"	"	"
X727	2SB755LB(R.O)	,,	"	"	"
X728	2SB755LB(R,O)	,,	"	"	"
X801	2SD313V(D,E)	30 W	8 MHz	"	Sanyo
X802	2SB507V(D,E)	''	"	"	
X803	2SD313V(D,E)	"	"	"	"
X901	2SC1775AV(F)	0.2 W	200 MHz	"	Hitachi
X902	2SC1775AV(F)	"	"	" .	"
X903	2SA872AV(E)	0.3 W	120 MHz	"	"

Integrated Circuits

Item No.	Part Number	Rating	Descr	iption
		Pc		Maker
IC501	HA1457	0.5 W	I.C.	Hitachi
IC502	HA1457	"	''	"
IC701	VC5022		"	Toyo Dengu
IC702	VC5022		"	"
IC851	BA684		′′	"
IC852	BA684		"	"
IC901	TA7317P	0.5 W	"	Toshiba

Diodes

Diodes				
Item No.	Part Number	Rating	Descrip	tion
				Maker
D701	1S2076-31		Silicon	Hitachi
D702	1S2076-31		"	"
D703	1S2076-31		"	"
D704	1S2076-31		"	"
D705	1S2076-31		"	"
D706	1S2076-31		"	"
D707	1S2076-31		"	''
D708	1S2076-31		"	"
D709	1S2076-31		"	"
D710	1S2076-31		"	"
D781	30D2FA-S		"	Nihon Inter
D782	30D2FA-S		"	
D783	30D2FA-S		"	
D784	30D2FA-S		"	" <u>A</u>
D801	RD22EB3		Silicon	NEC
			(Zener)	
D802	RD22EB3		"	"
D803	RD13EB3		"	"

Diodes

Diodes					
Item No.	Part Number	Rating	Descrip	tion	
				Maker	
D811	ERB12-02RKL1		Silicon	Fuji <i>∆</i> ^	7
D812	ERB12-02RKL1		"	″	7
D813	ERB12-02RKL1		"	″ _^	7
D814	ERB12-02RKL1		"	" ♠	7
D851	SLB-26GG		LED	Toyo Deng	gu
D852	SLB-26GG		"	"	
D853	SLB-26GG		"	"	
D854	SLB-26GG		"	"	
D855	SLB-26GG		"	"	
D856	SLB-26GG		"	"	
D857	SLB-26GG		"	"	
D858	SLB-26GG		"	"	
D859	SLB-26GG		,	"	
D860	SLB-26GG		"	"	
D861	SLB-26GG		"	"	
D862	SLB-26GG		"	"	
D863	SLB-26GG		"	"	
D864	SLB-26GG		"	"	
D865	SLB-26GG		,	"	
D866	SLB-26GG		"	"	
D867	1S2076-31		Silicon	Hitachi	
D868	1S2076-31		"	"	
D869	1S2076-31		"	"	
D870	1S2076-31		"	"	
D901	1S2076-31		"	"	
D902	1S2076-31		"	"	

Coils

Item No.	Part Number	Rating	Description
L701	E04059-1R0	1.0 μΗ	Choke Coil
L702	E04059-1R0	"	"

Capacitors

Item No.	Part Number	Rat	ting	Description
C451	QCS31HJ-151Z	160 pF	50 V	Ceramic
C452	QCS31HJ-151Z	"	"	"
C453	QFM31HK-183Z	0.018 μF	"	Mylar
C454	QFM31HK-183Z	"	"	"
C531	QEB51EM-475	4.7 μF	25 V	Low Leak Current
				Electrolytic
C532	QEB51EM-475	"	"	"
C533	QET51AR-476	47 μF	10 V	Electrolytic
C534	QET51AR-476	"	"	"
C535	QCS31HJ-101Z	100 pF	50 V	Ceramic
C536	QCS31HJ-101Z	"	"	"
C537	QET51AR-476	47 μF	10 V	Electrolytic
C538	QET51AR-476	,,, <u>,</u>	''	"
C539	QCS31HJ-820Z	82 pF	50 V	Ceramic
C540	QCS31HJ-820Z	"	''	"
C541	QCS31HJ-560Z	56 pF	''	"
C542	QCS31HJ-560Z	"	",	"
C543	QCS31HJ-271Z	270 pF	"	"
C544	QCS31HJ-271Z	,, ·	"	"
C545	QEZ0046-475	4.7 μF	"	Electrolytic
C546	QEZ0046-475	"	"	
C549	QET51ER-476	47 µF	25 V	"
C550	QET51ER-476	","	"	"
C701	QET61HR-475Z	4.7 μF	50 V	"
C702	QET61HR-475Z	"	"	"
C705	QFM31HK-392Z	3900 pF	"	Mylar
C706	QFM31HK-392Z	"	,,	"
C707	QET61CR-107Z	100 μF	16 V	Electrolytic
C708	QET61CR-107Z	"	"	"
C709	QFM31HK-272Z	2700 pF	50 V	Mylar
C710	QFM31HK-272Z	"	'''	ii ii
A · Safety	. D		***************************************	

∴ : Safety Parts

Capacitors

	. Part Number	Ra	ting	Description
C711	QCS31HJ-120Z	12 pF	50 V	Ceramic
C712	QCS31HJ-120Z	"	"	"
C713	QCS31HJ-470Z	47 pF	"	"
C714	QCS31HJ-470Z	"	"	"
C715	QCS31HJ-470Z	"	"	"
C716	QCS31HJ-470Z	"	"	"
C717	QFM31HK-473Z	0.047 μF	"	Mylar
C718	QFM31HK-473Z	"	"	"
C781	QEZ0060-878E	8700 μF	56 V	Electrolytic
C782	QEZ0060-878E	"	"	"
C783	QCE22HP-103	0.01 μF	500 V	Ceramic
C784	QCE22HP-103	,, ·	"	"
C785	QCF21HP-103	"	50 V	"
C787	QCF21HP-473A	0.047 μF	"	"
C788	QCF21HP-473A	"	"	"
C801	QET51ER-107	100 μF	25 V	Electrolytic
C802	QET51ER-107	"	-,,	"
C811	QET51CR-227	220 μF	16 V	"
C814	QET51CR-228H	2200 μF	"	"
C815	QCF21HP-223	0.022 μF	50 V	Ceramic
C851	QET51ER-106	10 μF	25 V	Electrolytic
C852	QET51ER-106	<i>''</i>	"	"
C853	QET51HR-225	2.2 μF	50 V	"
C854	QET51HR-225	<i>"</i>	"	"
C901	QCF31HP-223Z	0.022 μF	,,	Ceramic
C902	QCF31HP-223Z	"	,,	"
C903	QET51HR-226	22 μF	"	Electrolytic
	QET61AR-107Z	100 μF	10 V	"
	QET61CR-226Z	22 μF	16 V	"
C906	QET61HR-105Z	1 μF	50 V	"

Resistors

Item No	. Part Number	Ra	iting	Description
R001	QRC121K-275EM	+	1/2 W	Composition 🛆
R451	QRD141J-332SY	3.3 kΩ	1/4 W	Carbon
R452	QRD141J-332SY	"	1,,,	"
R453	QRD141J-332SY	"	"	"
R454	QRD141J-332SY	"	"	"
R455	QRD141J-564SY	560 kΩ	"	"
R456	QRD141J-564SY	"	"	"
R457	QRD141J-223SY	22 kΩ	"	"
R458	QRD141J-223SY	"	"	"
R459	QVZ5010-009	250 kΩ		Variable (BALANCE)
R460	QVZ5010-008	"		" (VOLUME)
R461	QRD141J-333SY	33 kΩ	1/4 W	Carbon
R551	QRD141J-184SY	180 kΩ	"	"
R552	QRD141J-184SY	"	""	"
R553	QRD141J-102SY	$1 \text{ k}\Omega$	"	"
R554	QRD141J-102SY	"	"	"
R555	QRD141J-222SY	$2.2~\mathrm{k}\Omega$	"	"
R556	QRD141J-222SY	"	"	"
R557		6.8 kΩ	"	"
R558	QRD141J-682SY	"	"	"
R559	QRD141J-103SY	10 kΩ	"	"
R560	QRD141J-103SY	"	"	"
R561	QRD141J-562SY	$5.6\mathrm{k}\Omega$	"	"
R562	QRD141J-562SY	"	"	"
R563	QRD141J-102SY	1 kΩ	"	"
R564	QRD141J-102SY	"	"	"
R701	QRD141J-222SY	2.2 kΩ	"	"
R702	QRD141J-222SY	"	"	"
R703	QRD141J-473SY	47 kΩ	"	"
R704	QRD141J-473SY	"	"	"
	QRD149J-102S	1 kΩ	,,	·· A
R706	QRD149J-102S	"	"	"
R707	QRD149J-102S	"	"	"
R708	QRD149J-102S	"	"	
		22 Ω	"	" <u>A</u>

∴ : Safety Parts

Resistors

$\begin{array}{cccccccccccccccccccccccccccccccccccc$		tors				
R711				Rating	Description	n
R712 QRD149J-150S "	1			1/4 W	Carbon	<u>^</u>
R717 QRD141J-223SY 22 kΩ	1					\triangle
R717 QRD141J-223SY 22 kΩ	1					<u>^</u>
R717 QRD141J-223SY 22 kΩ	l l			ł		A
R717 QRD141J-223SY 22 kΩ						
R717 QRD141J-223SY 22 kΩ	1		1	ı		<u> </u>
R719		_		,,	.,	2:5
R720	R719		1	,,		\wedge
R721 QRD149J-100S 10 Ω " " A R722 QRD149J-100S " " " A R724 QRD149J-100S " " " A R725 QRD141J-132SY " " " A R726 QRD14JJ-132SY " " " " A R727 QRG017J-822S 8.2 kΩ 1 W Oxide Metal Film A R728 QRD149J-181S 180 Ω 1/4 W Carbon A R730 QRD149J-181S 560 Ω " " A R731 QRD149J-181S 560 Ω " " A R733 QRD149J-181S 180 Ω " " " A R734 QRD14J-173SY " 1/4 W Carbon A R735 QRD14J-471SY " 1/4 W Carbon " R737 QV23501-471 " " " A R74	R720	QRD149J-220S	"	"	"	$\stackrel{\sim}{\triangle}$
R725 QRD14IJ-132SY 1.3 kΩ " " "		QRD149J-100S	10 Ω	"	"	
R725 QRD14IJ-132SY 1.3 kΩ " " "	1			"	"	<u>∠:</u>
R725 QRD14IJ-132SY 1.3 kΩ " " "	1		1	ı	1	$\overline{\mathbb{A}}$
R726	1		1	1		\triangle
R727 QRG017J-822S R728 QRD17J-822S R729 QRD14J-181S R730 QRD14J-181S R730 QRD14J-181S R731 QRD14J-561S R732 QRD14J-473SY T kΩ "						
R728	l.					
R729 QRD149J-181S 180 Ω 1/4 W Carbon A R730 QRD149J-561S 560 Ω " A R731 QRD149J-561S 560 Ω " A R732 QRD144J-473SY 47 kΩ " " R734 QRD144J-473SY 47 kΩ " " R736 QRD149J-181S 180 Ω " " A R737 QV23501-471 " " " A R738 QV23501-471 " " " Carbon R740 QRD141J-471SY " 1/4 W Carbon R741 SDT35 350 Ω 1 W Carbon R742 SDT35 350 Ω 1/4 W Carbon R744 QRD141J-243SY " " " R744 QRD141J-243SY " " " R744 QRD149J-101S " " " R747 QRD149J-101S " " " R748 QRD149J-10S " " " <t< td=""><td></td><td></td><td></td><td>i</td><td>Oxide Met</td><td>al Film</td></t<>				i	Oxide Met	al Film
R730 QRD149J-181S " " " " " MARTING			180 0		Carbon	٨
R731						
R733			560.0	-,,	"	
R733	1		"	"		<u> </u>
R735 QRD149J-181S 180 Ω " " A A A A A A A A	R733		47 kΩ	"	"	2:3
R736	R734	QRD141J-473S	/ "	"	"	
R737			180 Ω	"	,,	\triangle
R738			"	"	"	Δ
R739			1	1/2 W	Variable	
R740 QRD14IJ-471SY " " " " " " " " " " " " " " " " " " "				"	"	
R741 SDT35 350 Ω 1 W Thermistor R742 SDT35 390 Ω 1/4 W Carbon R744 QRD141J-391SY " " " R745 QRD141J-243SY " " " R746 QRD149J-122S 1.2 kΩ " " Δ R748 QRD149J-122S 1.2 kΩ " " Δ R749 QRD149J-101S 100 Ω " " Δ R750 QRD149J-100S " " " Δ R751 QRD149J-100S " " " Δ R752 QRD149J-100S " " " Δ R753 QRD149J-100S " " " Δ R754 QRD149J-100S " " " Δ R755 QRM024K-R22 0.22 Ω 2 W Metal Plate Δ R756 QRM024K-R22 " " " Δ R756 QRM044K-R22 " " " Δ R761		1 -		1 '	Carbon	
R742 SDT35 " " " " " " " " " " " " " " " " " " "					<u> </u>	
R743 QRD141J-391SY R744 QRD141J-391SY QRD141J-391SY QRD141J-243SY PY QRD141J-243SY PY QRD14J-124SSY PY QRD149J-122S PY QRD149J-122S PY QRD149J-101S PY QRD149J-101S PY PY QRD149J-101S PY PY QRD149J-101S PY PY QRD149J-101S PY PY QRD149J-100S PY				1	Thermistor	
R744 QRD141J-391SY QRD141J-243SY QRD141J-243SY QRD141J-243SY QRD149J-122S QRD149J-101S QRD149J-101S QRD149J-101S QRD149J-101S QRD149J-100S QRD149J-10OS Q			390.0	1 .	Carbon	
R745 QRD141J-243SY 24 kΩ " " R746 QRD141J-243SY " " " A R747 QRD149J-122S " " " A R748 QRD149J-122S " " " A R749 QRD149J-101S 100 Ω " " A R750 QRD149J-100S " " " A R751 QRD149J-100S " " " A R752 QRD149J-100S " " " A R753 QRD149J-100S " " " A R754 QRD149J-100S " " " A R755 QRM024K-R22 " " " A R756 QRM024K-R22 " " " A R757 QRM024K-R22 " " " A R759 QRD149J-4R7S " " " A R760 QRD149J-4R7S " " " A <td< td=""><td></td><td>1 -</td><td></td><td>1/4 00</td><td></td><td></td></td<>		1 -		1/4 00		
R747 QRD149J-122S 1.2 kΩ " " Δ R748 QRD149J-122S " " " Δ R749 QRD149J-101S 100 Ω " " Δ R750 QRD149J-100S " " " Δ R751 QRD149J-100S " " " Δ R752 QRD149J-100S " " " Δ R753 QRD149J-100S " " " Δ R754 QRD149J-100S " " " Δ R755 QRM024K-R22 0.22 Ω 2 W Metal Plate Δ R756 QRM024K-R22 " " " Δ R757 QRM024K-R22 " " " Δ R758 QRD149J-4R7S 4.7 Ω 1/4 W Carbon Δ R760 QRD149J-4R7S " " " Δ R761 QRZ0050-100 10 Ω 1/2 W Δ Δ R801 QRD149J-392 " "	R745	1 -	1	"	"	
R748 QRD149J-122S " " " A A A A A A A A A A A A A A A A A	R746	QRD141J-243SY	, ,,	"	· · ·	
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""		QRD149J-122S	1.2 kΩ	"	,,	\wedge
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""			"	"	"	$\overline{\wedge}$
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""					1	$\overline{\triangle}$
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""			"			\triangle
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""			10 Ω	1		\triangle
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""			",			\triangle
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""			1	1		A
R756 QRM024K-R22 """"""""""""""""""""""""""""""""""""			1	2 W		4
R757 QRM024K-R22 " " " " A A R758 QRM024K-R22 " " " A A QRD149J-4R7S 4.7 Ω 1/4 W Carbon A A R760 QRD149J-4R7S " " A R761 QRZ0050-100 QRZ0050-100 QRZ0050-100 QRG017J-680S QRD129J-392 QRG017J-680S WRS02 QRD129J-392 3.9 kΩ 1/2 W Carbon A " " W Carbon A R804 QRD129J-392 QRG027J-121 QRG027J-121 WRS08 QRG027J-121 WRS08 QRD141J-332SY QRD141J-332SY QRD141J-332SY QRD141J-272SY QRD141J-272SY QRD141J-272SY QRD141J-272SY QRD141J-272SY QRD141J-272SY QRD141J-272SY QRD141J-390SY QRD141J-390SY QRD141J-390SY QRD141J-390SY WRS54 QRD141J-103SY WRS55 QRD141J-103SY WRS57 QRD141J-103SY WRS57 QRD141J-473SY WRS58 QRD141J-473SY WRS58 QRD141J-473SY WRS58 QRD141J-473SY WRS59 QR						
R758 QRM024K-R22 " " " " " " " " " " " " " " " " " " "			,,	,,	,,,	4
R759 R760 QRD149J-4R7S QRD149J-4R7S 4.7 Ω " 1/4 W " Carbon " Δ Δ R761 R801 QR20050-100 QR20050-100 QRG017J-680S QRG017J-680S QRG017J-680S QRD129J-392 10 Ω " 1/2 W " Δ Δ R804 R807 QRD129J-392 QRG027J-121 QRG027J-121 QRD14J-332SY QRD14J-332SY R811 1/2 W " Carbon " Δ " R811 R851 QRD129J-2R7 QRD14J-272SY R852 QRD14J-390SY QRD14J-390SY QRD14J-390SY QRD14J-103SY R854 QRD14J-103SY R855 QRD14J-103SY QRD14J-473SY " " " R855 QRD14J-473SY R858 QRD14J-473SY 10 kΩ " " " R857 QRD14J-473SY QRD14J-473SY 47 kΩ " " R858 QRD14J-473SY R858 QRD14J-473SY 47 kΩ 47 kΩ " " R859 QRD14J-473SY R859 QRD14J-473SY 47 kΩ " " "			"	"	"	4
R761 QRZ0050-100 10 Ω 1/2 W Δ R801 QRG017J-680S 0 1 W Oxide Metal Film Δ R802 QRG017J-680S " " " R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ Δ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 " " " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " Δ R852 QRD141J-272SY " " " " " R853 QRD141J-390SY 39 Ω " " " " R855 QRD141J-103SY " " " " " R856 QRD141J-473SY " " " " " R857 <	R759		4.7 Ω	1/4 W	Carbon	<u> </u>
R761 QRZ0050-100 10 Ω 1/2 W Δ R801 QRG017J-680S 0 1 W Oxide Metal Film Δ R802 QRG017J-680S " " " R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ Δ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 " " " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " Δ R852 QRD141J-272SY " " " " " R853 QRD141J-390SY 39 Ω " " " " R855 QRD141J-103SY " " " " " R856 QRD141J-473SY " " " " " R857 <	R760	QRD149J-4R7S	"	"	"	$\stackrel{\sim}{\mathbb{A}}$
R801 QR20050-100 " "				1/2 W		
R802 QRG017J-680S " " " A A A A A A A A A A A A A A A A A			1	"		△
R803 QRD129J-392 3.9 kΩ 1/2 W Carbon Δ R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ Λ R808 QRG027J-121 " " " Δ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ R811 QRD129J-2R7 " " " Δ R851 QRD141J-272SY " " " Δ R852 QRD141J-272SY " " " " R853 QRD141J-390SY " " " " R854 QRD141J-103SY " " " " R855 QRD141J-103SY " " " " R856 QRD141J-473SY 47 kΩ " " " R857 QRD141J-473SY " " " " R858 QRD141J-473SY " " " " R858 QRD141J-473SY " <t< td=""><td></td><td></td><td>68 Ω</td><td>1 W</td><td>Oxide Metal</td><td>Film 🛆</td></t<>			68 Ω	1 W	Oxide Metal	Film 🛆
R804 QRD129J-392 " " " Δ R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ R808 QRG027J-121 " " Δ R809 QRD141J-332SY ORD141J-272SY 3.3 kΩ 1/4 W 2arbon 1/2 W " Δ R811 QRD129J-2R7 " " " Δ R851 QRD141J-272SY ORD141J-272SY ORD141J-272SY ORD141J-390SY ORD14J-390SY ORD141J-390SY ORD14J-390SY			2010	,,,,,,	_".	
R807 QRG027J-121 120 Ω 2 W Oxide Metal Film Δ R808 QRG027J-121 " " Λ R809 QRD141J-332SY 3.3 kΩ 1/4 W Carbon Δ Λ R811 QRD129J-2R7 " " " Λ R851 QRD141J-272SY 2.7 kΩ 1/4 W " Λ R852 QRD141J-272SY " " " " R853 QRD141J-390SY 39 Ω " " " R854 QRD141J-390SY " " " " R855 QRD141J-103SY " " " " R856 QRD141J-473SY 47 kΩ " " " R857 QRD141J-473SY " " " " R858 QRD141J-473SY " " " "			3.9 kΩ			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			120.0	1		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			1	2 VV	Oxide Metal	
R811 QRD129J-2R7 2.7 Ω 1/2 W " Δ R812 QRD129J-2R7 " " " Δ R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " " R858 QRD141J-473SY " " "		_	3.3 kO	1/4 \	Carbon	
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "		_	[1 ' 1	"	<u> </u>
R851 QRD141J-272SY 2.7 kΩ 1/4 W " R852 QRD141J-272SY " " " R853 QRD141J-390SY 39 Ω " " R854 QRD141J-103SY " " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	R812				"	<u> </u>
R852 QRD141J-272SY " " " " R853 QRD141J-390SY " " " " " " " " " " " " " " " " " " "	- 1		$2.7 k\Omega$	1/4 W	,,	4:2
R854 QRD141J-390SY " " " R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "			"	"	,,	
R855 QRD141J-103SY 10 kΩ " " R856 QRD141J-103SY " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "	1	QRD141J-390SY		"	"	
R856 QRD141J-103SY " " " " R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "		QRD141J-390SY	"	"	"	
R857 QRD141J-473SY 47 kΩ " " R858 QRD141J-473SY " " "		_				
R858 QRD141J-473SY " " "		_				
D004			47 kΩ			
CITTO 22201 2.2 K34			2240			
			2.2 K36			

Resistors

Item No.	Part Number	Rat	ting	Description
R902	QRD141J-222SY	$2.2 k\Omega$	1/4 W	Carbon
R903	QRD141J-102SY	$1 k\Omega$	"	"
R904	QRD141J-102SY	"	"	"
R905	QRD141J-123SY	12 kΩ	"	"
R906	QRD141J-123SY	"	"	"
R907	QRD141J-103SY	10 kΩ	"	"
R908	QRD141J-332SY	$3.3~\mathrm{k}\Omega$	"	"
R909	QRD141J-683SY	68 kΩ	"	"
R910	QRD141J-563SY	56 kΩ	"	"
R911	QRD141J-183SY	18 kΩ	"	"
R912	QRD141J-683SY	68 kΩ	"	"
R913	QRD141J-153SY	15 kΩ	"	"
R914	QRD141J-184SY	180 kΩ	"	"
R915	QRG017J-471S	470 Ω	1 W	Oxide Metal Film 🛆
R916	QRD141J-151SY	150 Ω	1/4 W	Carbon
R917	QRD141J-223SY	22 kΩ	"	"
R918	QRD141J-104SY	100 kΩ	"	"
R919	QRD141J-104SY	"	"	"
R920	QRD141J-104SY	"	"	"
R921	QRD141J-563SY	56 kΩ	"	"
R951	QRD129J-221	220 Ω	1/2 W	″ ∧
R952	QRD129J-221	"	"	
R953	QRD141J-332SY	$3.3~\mathrm{k}\Omega$	1/4 W	"
R954	QRD141J-332SY	"	"	"
R955	QRD141J-681SY	680 Ω	"	"
R956	QRD141J-681SY	"	"	"

Others

Item No.	Part Number	Rating	Description
	EWS014-027		Socket Wire
	E300821-001		LED Holder
	EWS012-032		Socket Wire Ass'y
	EWS016-019		''
RY901	ESK6D24-213		Relay Switch
	EWS017-017		Socket Wire Ass'y
	EWS012-033		"
	EWR24J-10DD		Flat Cable
	EWR25J-10DD		"
	E03572-007EM		Speaker Terminal
	E300160-004		Heat-sink
	E48965-002		Fuse Clip
	E61537-002		Heat-sink
SPK	QSP0229-019		Push Switch
			(Speaker select)

 $\underline{\Lambda}$: Safety Parts

8-(3) TAP-283 S.E.A. (Sound Effect Amplifier) Controls P.C. Board Ass'y

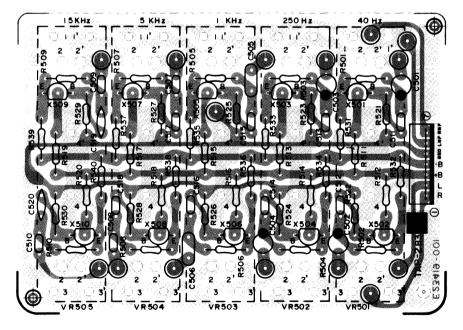


Fig. 18

Transistors

Item No.	Part Number	Rating		Descrip	tion
		Pc	fT		Maker
X501	2SC1775AV(F)	0.2 W	200 MHz	Silicon	Hitachi
X502	2SC1775AV(F)	"	"	"	"
X503	2SC1775AV(F)	"	"	"	"
X504	2SC1775AV(F)	"	"	"	"
X505	2SC1775AV(F)	"	"	"	"

Transistors

Item No.	Part Number	Ra	ating	Descri	ption
		Pc	fT		Maker
X506	2SC1775AV(F)	0.2 W	200 MHz	Silicon	Hitachi
X507	2SC1775AV(F)	"	"	''	"
X508	2SC1775AV(F)	"	"	"	"
X509	2SC1775AV(F)	"	"	"	"
X510	2SC1775AV(F)	"	"	''	"

Capacitors

Item No.	Part Number	Ra	ting	Description
C501	QET61HR-475Z	4.7 μF	50 V	Electrolytic
C502	QET61HR-475Z	"	"	"
C503	QET61HR-474Z	0.47 μF	"	"
C504	QET61HR-474Z	"	"	"
C505	QFM31HK-124Z	0.12 μF	"	Mylar
C506	QFM31HK-124Z	"	"	"
C507	QFM31HK-273Z	0.027 μF	"	"
C508	QFM31HK-273Z	"	"	"
C509	QFM31HK-562Z	5600 pF	"	"
C510	QFM31HK-562Z	"	"	"
C511	QFM31HK-223Z	0.022 μF	,,	"
C512	QFM31HK-223Z	"	"	"
C513	QFM31HK-822Z	8200 pF	"	"
C514	QFM31HK-822Z	"	"	"
C515	QFM31HK-332Z	3300 pF	"	"
C516	QFM31HK-332Z	"	"	"
C517	QFM31HK-102Z	1000 pF	"	"
C518	QFM31HK-102Z	,, ·	"	"
C519	QCS21HJ-681	680 pF	"	Ceramic
C520	QCS21HJ-681	"	"	"

Resistors

Item No.	Part Number	Ra	ting	Description	
R501	QRD141J-122SY	1.2 kΩ	1/4 W	Carbon	
R502	QRD141J-122SY	"	"	"	
R503	QRD141J-122SY	"	"	"	
R504	QRD141J-122SY	"	"	"	
R505	QRD141J-122SY	"	"	"	
R506	QRD141J-122SY	"	"	"	
R507	QRD141J-122SY	"	"	"	
R508	QRD141J-122SY	"	"	"	
R509	QRD141J-122SY	"	"	"	
R510	QRD141J-122SY	"	"	"	
R511	QRD141J-391SY	390 Ω	"	"	
R512	QRD141J-391SY	"	"	"	
R513	QRD141J-391SY	"	"	,,	
R514	QRD141J-391SY	"	,,	"	
R515	QRD141J-391SY	"	"	"	

Resistors

Item No.	Part Number	Ra	ting	Description
R516	QRD141J-391SY		1/4 W	Carbon
R517	QRD141J-391SY	"	17,,	"
R518	QRD141J-391SY	"	"	"
R519	QRD141J-391SY	"	"	,,
R520	QRD141J-391SY	"	"	"
R521	QRD141J-134SY	130 kΩ	"	"
R522	QRD141J-134SY	"	,,	,,
R523	QRD141J-913SY	91 kΩ	"	"
R524	QRD141J-913SY	"	n	"
R525	QRD141J-513SY	51 k Ω	"	,,
R526	QRD141J-513SY	"	"	"
R527	QRD141J-333SY	33 kΩ	"	"
R528	QRD141J-333SY	"	"	"
R529	QRD141J-243SY	24 kΩ	"	"
R530	QRD141J-243SY	"	,,	"
R531	QRD141J-682SY	6.8 kΩ	"	"
R532	QRD141J-682SY	"	"	"
R533	QRD141J-682SY	"	"	"
R534	QRD141J-682SY	"	"	,,
R535	QRD141J-682SY	"	"	"
R536	QRD141J-682SY	"	,,	"
R537	QRD141J-682SY	"	"	"
R538	QRD141J-682SY	"	"	,,
R539	QRD141J-682SY	"	"	"
R540	QRD141J-682SY	"	"	"

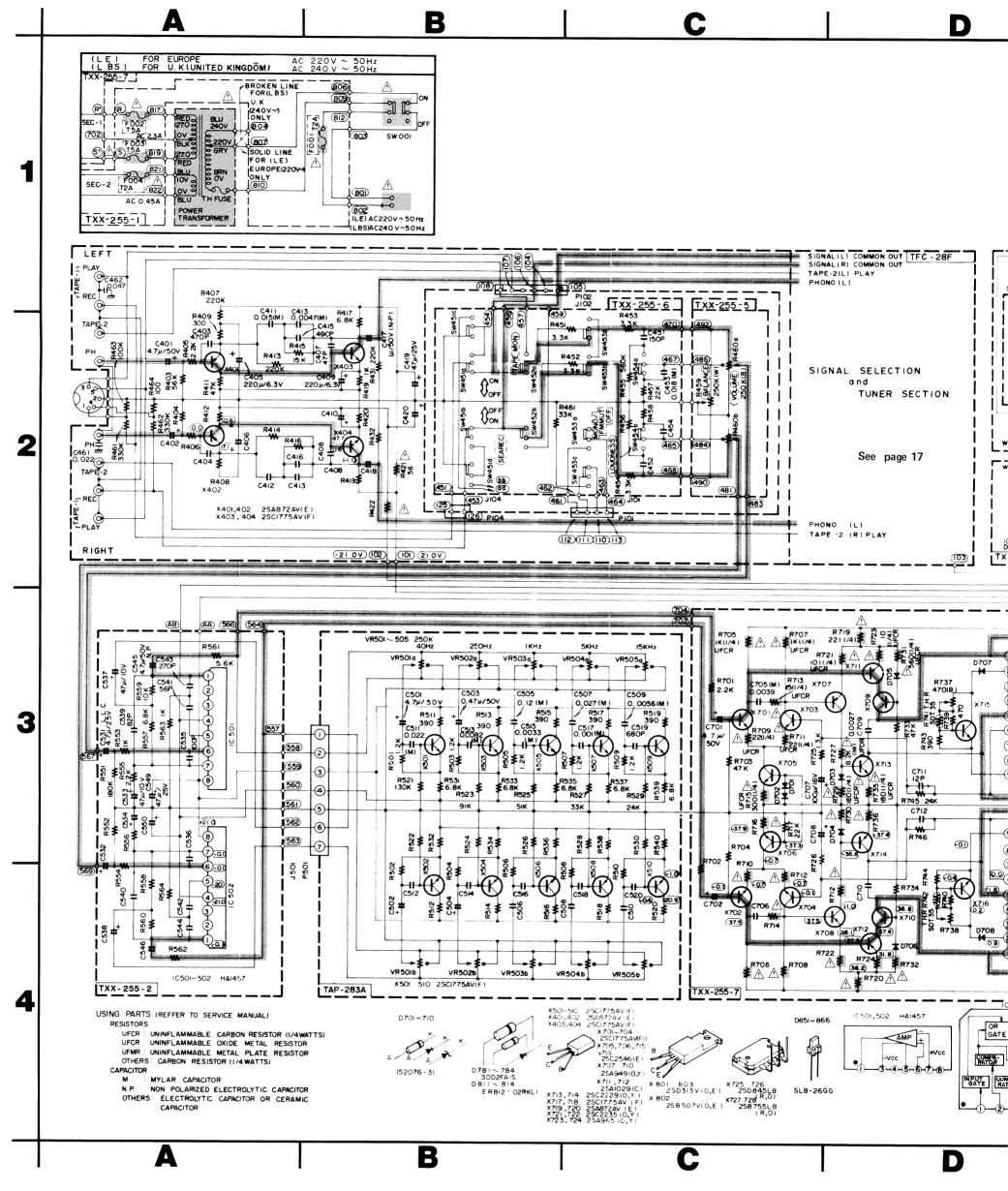
Others

Item No.	Part Number	Rating	Description	
VR501	QVZ5010-002		Variable (40 H;	
VR502	QVZ5010-002		" (250 F	
VR503	QVZ5010-002		" (1 kHz	
VR504	QVZ5010-002		" (5 kHz	
VR505	QVZ5010-002		" (15 kH	
	QMV5005-007		Pin Plug Ass'y	,

9. Accessories List

Item No.	Part Number	Description	Q'tv
1	E30580-820A	Instruction Book	1
2	BT20013C	Warranty Card (for U. K. only)	1
3	E03614-004	FM Antenna	1
4	E41202-2	Envelope for Instruction Book	1

10. R-S33L Schematic Diagram



Printed Circuit Board Ass'y Locations

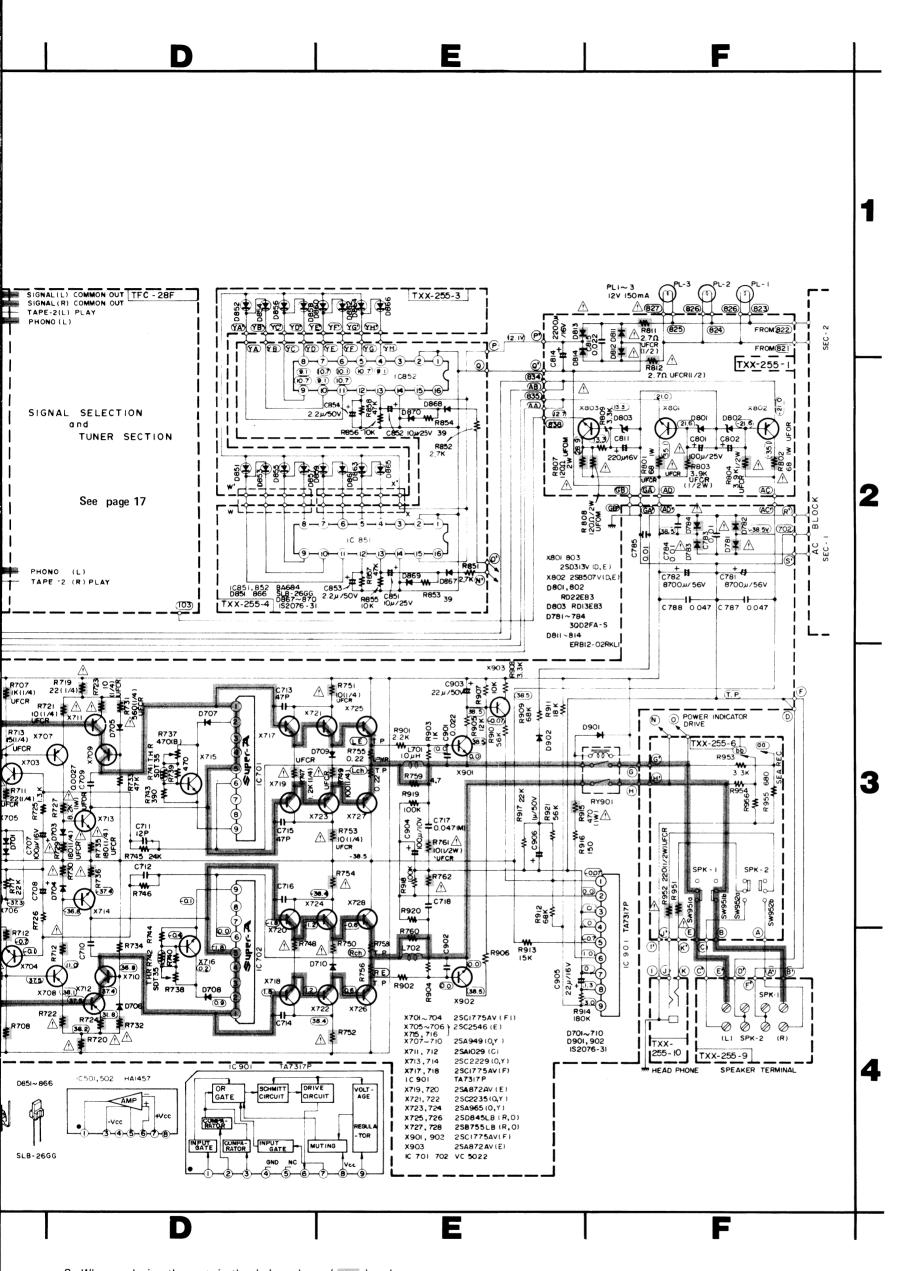
P.C. Board Ass'y	Description	Page
TFC-28E	FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y	8
TXX-255	Main Amp., Power Supply and Other Functions Split P.C. Board Ass'y	11

Notes:

- 1. shows DC voltage to the chassis with no signal input.
- 2. * shows DC voltage to the chassis when 10 mV
- antenna input applied.
- 3. Voltage values in ____ are positive.
- 4. Voltage values in are negative.
- 5. —— indicates positive B power supply.6. —— indicates negative B power supply.
- 7. indicates signal path.

- 8. When replacing the parts in t those marked with ⚠, be su to ensure safety.
- 9. Parts in red indicate transistor10. This is the standard circuit diaThe design and contents are

notice.

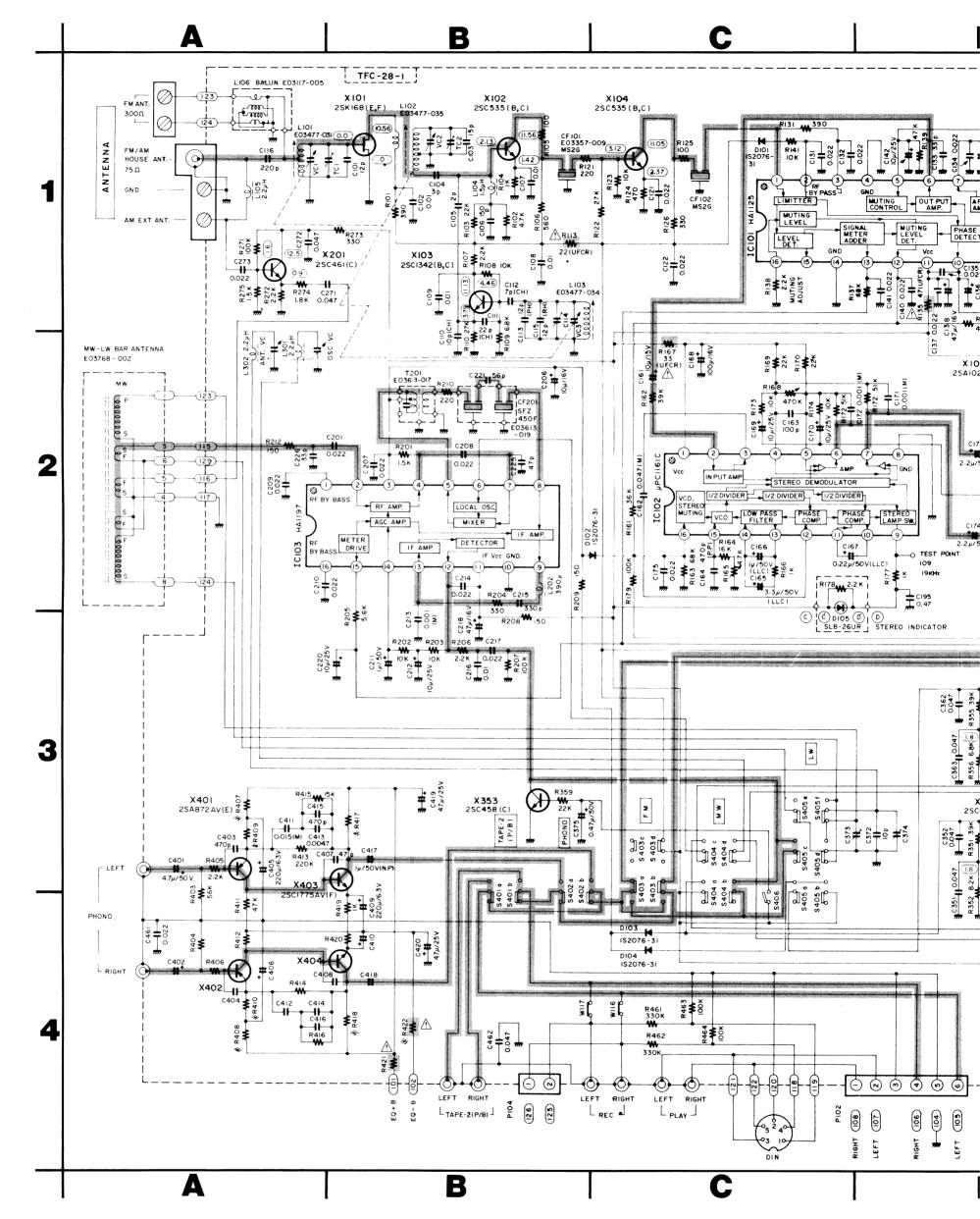


- 8. When replacing the parts in the darkened area () and those marked with \triangle , be sure to use the designated parts to ensure safety.
- 9. Parts in red indicate transistors or ICs.

put.

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This is the standard circuit diagram.
 The design and contents are subject to change without notice.

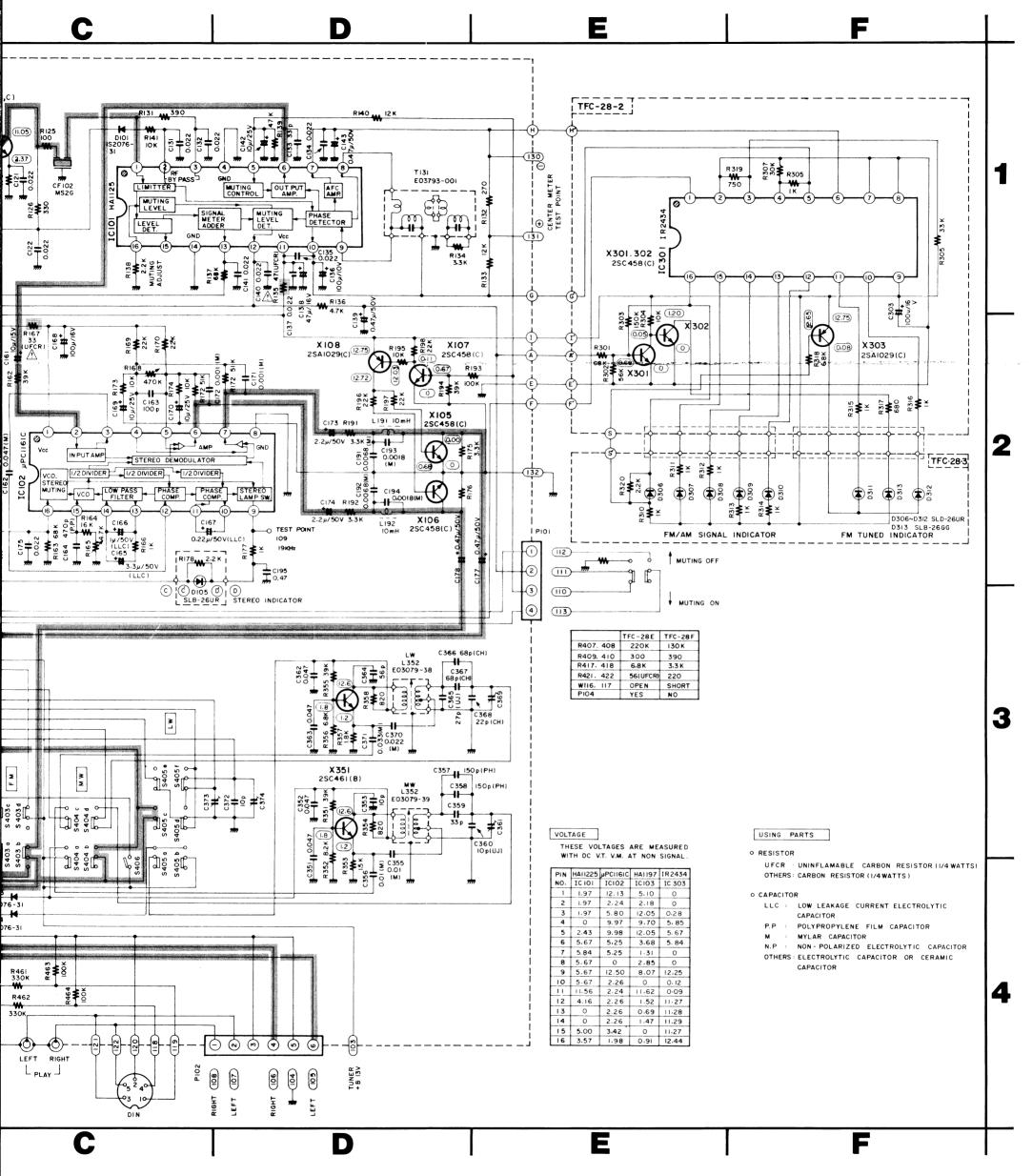


Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	
TFC-28E	FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y	8
TXX-255	Main Amp., Power Supply and Other Functions Split P.C. Board Ass'y	11

Notes:

- 1. ____ shows DC voltage to the chassis with no signal input.
- 2. * shows DC voltage to the chassis when 10 mV
- antenna input applied. 3. Voltage values in ____ are positive.
- 4. Voltage values in ____ are negative.
- 5. indicates positive B power supply.
- 6. —— indicates negative B power supply. 7. indicates signal path.
- 8. When replacing t those marked wit to ensure safety.
- 9. Parts in red indica
- 10. This is the standa The design and notice.



tage to the chassis with no signal input. voltage to the chassis when 10 mV lied.

are positive.
are negative.
sitive B power supply.
gative B power supply.
nal path.

- 8. When replacing the parts in the darkened area (\blacksquare) and those marked with \triangle , be sure to use the designated parts to ensure safety.
- 9. Parts in red indicate transistors or ICs.
- This is the standard circuit diagram.
 The design and contents are subject to change without notice.

11. Packing Materials and Part Numbers

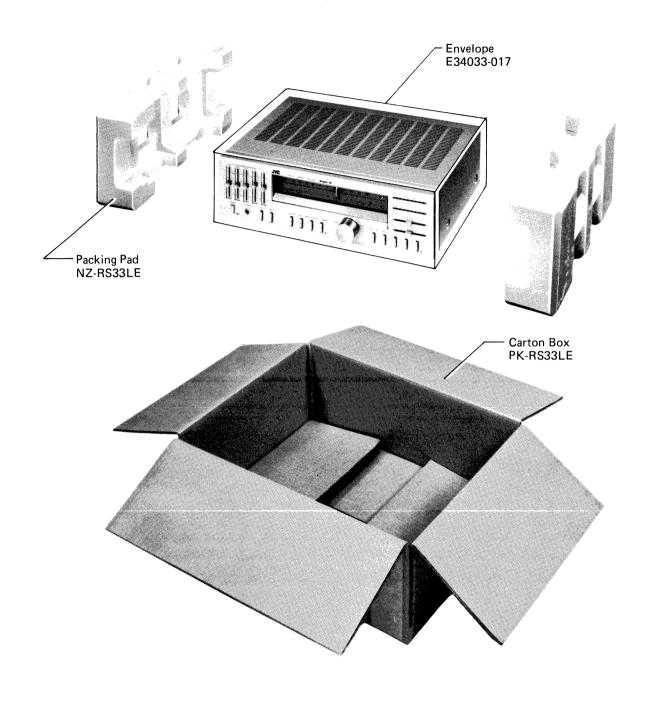


Fig. 19

Power Specifications

Areas	Line Voltage & Frequency	Power Consumption
Continental Europe	AC 220 V ~, 50 Hz	390 W
U.K. and Australia	AC 240 V ~, 50 Hz	390 W